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RESEARCH PROPOSAL QUARTERLY STATUS REPORT



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**RESEARCH PROPOSAL
QUARTERLY STATUS REPORT**

JULY 1988

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DEBRA TYRRELL, CHIEF
TECHNICAL DOCUMENTS SECTION
AFOSR/XOTD
BOLLING AFB, DC 20332-6448
(202) 767-4912 or AUTOVON 297-4912**

INTRODUCTION

This Research Proposal Status Report is published quarterly as of March, June, September, and December of each year. It lists all the research proposals received by the Air Force Office of Scientific Research (AFOSR) in the six month period prior to the date of this report. Normally, decisions and actions are made within six months after receiving a research proposal. The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report. The report is divided into two parts: Part I is the Institution Index which lists the proposals received, alphabetically by Institution. Part II is the AFOSR Directorate Index in which the proposals received are listed alphabetically by Directorate and alphabetically by AFOSR Program Manager within the Directorate. Any questions regarding this report, please contact Ms. Debra Tyrrell at (202) 767-4912 or Autovon 297-4912.

PURPOSE

The purpose of the quarterly report is to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Users of the report should read and clearly understand that:

Declined proposals should not necessarily be considered as scientifically unacceptable since many declinations result from a lack of funds or from special programmatic emphases.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Director of Laboratories, Air Force Systems Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from unsolicited proposals originating from scientists investigating problems, involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = Indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATED - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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BOLLING AIR FORCE BASE, DC 20332

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Prog Mgr Dr Anthony Amos	4937	Prog Mgr Dr Alfred R. Fregly	5021
Prog Mgr Dr Spencer Wu	6962	Prog Mgr Maj T. Jan Cerveny	5021
Prog Mgr Dr Julian Tishkoff	0465	Prog Mgr John F. Tangney	5021
Prog Mgr Dr James McMichael	4936		
Prog Mgr Maj Steven Boyce	6963		
Prog Mgr Lt Col George Haritos	0463		
Prog Mgr Cap Henry Helin	0471		
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Prog Mgr Maj Larry W Burggraf	4960
Prog Mgr Maj Larry P. Davis	4963
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Prog Mgr Maj James Crowley	4939
Prog Mgr Lt Col David Nelson	4939

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Prog Mgr Dr Howard R. Schlossberg	4906

PART I

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ATL TECHNOLOGIES INC	CONNOR		JOHN	A	88-NL-234		BERRY
ACADEMY OF NATURAL SCIENCES	RIEDEL		GERMARDT	F	88-NL-227	D	CERVENY
ADVANCED COMPOSITE ENGINEERING, INC.	SUN		C	T	88-NA-162		MARITOS
					88-NA-163		ROSENSTEIN
ADVANCED DECISION SYSTEMS	GERARD		PATRIC		88-NE-063		CROWLEY
ADVANCED FUEL RESEARCH INC.	SERIO		MICHAEL	A	88-NA-280		TISHKOFF
	SOLOMON		PETER	R	88-NA-120		TISHKOFF
					88-NA-117		TISHKOFF
					88-NA-118		TISHKOFF
					88-NA-140		TISHKOFF
ADVANCED MATERIALS CORPORATION	SANKAR		S	G	88-NE-192		WEINSTOCK
ADVANCED MATERIALS TECHNOLOGY	KIM		Y	B	88-NE-106	A	WEINSTOCK
ADVANCED TECHNOLOGY ENGINEERING CONS.	VENKATESAN		MAHADEVA	S	88-NA-155		MCMICHAEL
ADVANCED TECHNOLOGY LABORATORIES	JENNINGS		JACK	R	88-NA-216		CROWLEY
					88-NA-217		CROWLEY
					88-NA-218		CROWLEY
					88-NA-219		CROWLEY
					88-NA-221		CROWLEY
AEROCOM INC	MUHL JR.		JOSEPH		88-NA-220		CROWLEY
AERODYNE RESEARCH INC	HOOKER		STEPHEN	F	88-NA-157		MCMICHAEL
	PUTNAM		ROGER	S	88-NA-046		SCHLOSSER
	STINESPRING		CHARTER	D	88-NE-088		MALLOY
AEROMETRICS INC	BACHALO		WILLIAM	D	88-NA-109		MCMICHAEL
					88-NA-111		BIRKAN
AEROSPACE COMPANY	PLANN		DAVID	S	88-NA-292	A	MILLER
AEROSPACE MEDICAL DIVISION	CANTU		CRUZ		88-NL-047	A	DISMUKES
	CULLEN		LARRY		88-NL-046	A	DISMUKES
AEROTECH SYSTEMS CORPORATION	PRASAD		J.	S	88-NP-079	A	RADOOSKI
AIR FORCE GEOPHYSICS LABORATORY	HEINEMANN		MICHAEL	A	88-NP-116	A	RADOOSKI
	MILLER		W.		88-NP-034	A	SCHLOSSER
AIR FORCE INSTITUTE OF TECHNOLOGY	LINDERMAN		RICHARD	M	88-NE-155	A	MALLOY
	MILLS		JAMES	P	88-NP-117	A	PRINCE
	PALAZOTTO		ANTHONY	M	88-NA-205	A	NACHMAN
	ROM		MON	B	88-NP-037	A	SMITH
	WOLVER		LYNN		88-XO-005	A	EDMUND
					88-XO-008	A	EDMUND
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	TORK		BETTY	J	88-XO-010	A	YORK
AIR FORCE WEAPONS LAB	BURNETTE		MONARD		88-NA-188	A	CROWLEY
	HARMESON		TIM		88-NA-251	A	BIRKAN
	RIENKE		ROBERT		88-NP-140	A	PRINCE
AIRBORNE RESEARCH ASSOCIATES	MARSON		RALPH	J	88-NC-087		KOERNER
ALAN S. PIKE	PIKE		ALAN	S	88-NL-134		FREGLY
ALBION COLLEGE	MEERSCHAERT		MARK	M	88-NA-193	D	WOODRUFF
AMERICAN METEOROLOGICAL SOCIETY	HAZUR		EVELYN		88-NC-200	A	KOERNER
AMERICAN PSYCHOLOGICAL ASSOCIATION INC	GOODSTEIN		LEONARD	D	88-NL-048	A	FREGLY
AMERICAN RESEARCH CORP OF VIRGINIA	MIYURA		MASANOBU	G	88-NE-071	A	WEINSTOCK
ANALCOM INC	LAUPER		GABRIEL		88-NA-079	A	TISHKOFF
ANALYTICAL METHODS INC	NATHMAN		JAMES	K	88-NA-101		MELIN

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INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ANALYTICAL SERVICES & MATERIALS INC.	MANGALAM	S	M	88-NA-077		MCMICHAEL
APPLIED ANALYSIS, INC.	TANG	HUANQUI		88-NA-090		MCMICHAEL
APPLIED CRYSTAL ENGINEERING, INC.	KEYSER	EODIE	K	88-NA-186		MARITOS
APPLIED ENGINEERING RESEARCH, INC.	BEDERI	MABIN	E	88-MP-074		PRINCE
APPLIED INNOVATION, INC.	DAVIDSON	JOSEPH		88-NA-187		MARITOS
APPLIED MICROWAVE PLASMA CONCEPTS	GUEST	GARETH	E	88-MP-263		CROWLEY
APPLIED RESEARCH ASSOCIATES INC	BLUJIN	SCOTT	E	88-MP-049	A	BARKER
APPLIED RESEARCH CORPORATION	ORQUIER	A	E	88-NA-275		BOYCE
APPLIED SCIENCE, INC.	BRITO	K	K	88-NE-143	A	WEINSTOCK
APTECH ENGINEERING SERVICES, INC.	CIPOLLA	RUSSELL	C	88-NE-062		ROSENSTEIN
ARCHITECTURAL ENERGY CORPORATION	WORTHEN	DAVID	M	88-NA-189		MARITOS
ARGONNE NATIONAL LABORATORY	SABOUNGI	MARIE-LOUISE		88-NA-137		MCMICHAEL
ARITHMETIKA, INC	CHUDOVSKY	DAVID	V	88-MC-111		WILKES
ARIZONA STATE UNIVERSITY	PERRY	DAVID	K	88-MM-296		CROWLEY
ARMY ENGINEER WATERWAYS EXPERIMENT STA	S. TAYLOR	THOMAS	J	88-NE-121		MALLOY
ARMY RESEARCH OFFICE	MUSKY	LEONARD		88-MM-303	A	CROWLEY
ARTIFICIAL INTELLIGENCE RESEARCH INSTITUTE	STROSCWIO	MIKE		88-NC-163	A	KOERNER
ASTROM RESEARCH & ENGINEERING	BROWN	FRANK	M	88-NE-158	A	MALLOY
ATLANTA UNIVERSITY	MARAMURA	TAKASHI		88-NE-056		GILES
ATLANTA UNIVERSITY CENTER INC	ROTA	KOFF	B	88-MM-209	A	WAKSHAM
ATLANTIC APPLIED RESEARCH	MEDWIN	N.	C	88-NA-176		TISHKOFF
ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	STELSON	ARTHUR	M	88-MM-405	M	CROWLEY
ATOM SCIENCES, INC.	KERN	FRED	R	88-MM-465		CROWLEY
OK DYNAMICS, INC.	HOPFMAN	ROSS	M	88-NC-199		KOERNER
BATTELLE PACIFIC NORTHWEST LABORATORIES	MEMKORN	THOMAS		88-NA-145	A	NACHMAN
BELTRAM ASSOCIATES INC	THOMARD	MORBERT		88-MC-085		KOERNER
BELTRAM INC	WATKINS	THOMAS	V	88-NC-076		KOERNER
BERKELEY APPLIED SCIENCE & ENGP.	SOURS	DANIEL	L	88-MC-095		WILKES
BOEING CO	WILLIFORD	R	E	88-MP-058		SCHLOSSBER
BOEING COMPUTER SERVICES INC	SIMO	CONSTANCE		88-NL-133		FREELY
BOSTON UNIVERSITY	SIMO	CONSTANCE		88-NA-225		MARITOS
BOWLING GREEN UNIVERSITY	PANAHANDEN	M		88-NA-145		MARITOS
BOYCE THOMPSON INSTITUTE AT CORNELL UNIV	LUNNAN	THOMAS	B	88-NC-089		BURGGRAF
BRIGHTON UNIVERSITY	BIETERMAN	MICHAEL	S	88-NC-090		BURGGRAF
BRIMROSE CORP. OF AMERICA	TAQUU	MURAD	T	88-MC-091		BURGGRAF
BROOKHAVEN NATIONAL LABORATORY	GROSSBERG	STEVEN		88-NE-098		WEINSTOCK
	TOOD	JAMES		88-NA-135		WU
	MCUNE	SO-MIANG		88-NC-136	A	ULRICH
	ROSSITER	DELBERT	C	88-MM-418		NACHMAN
	ROSEMEIER	RYAN	E	88-MM-169	A	WOODRUFF
	PASCTAK	JOSEPH	E	88-MM-412		WAKSHAM
				88-NL-065	A	TANNEY
				88-MM-293	D	NACHMAN
				88-NL-219		CERVENY
				88-NC-163		MATUSZKO
				88-NE-070		WEINSTOCK
				88-NE-079		WITT
				88-MM-192		NACHMAN

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BROOKLYN COLLEGE OF CUNY BROWN UNIVERSITY	POLLAK	FRED	H	88-NE-127		MALLOY
	DEAN	THOMAS		88-MM-419	A	MAKSMAN
	PEARSON	ALLAN	E	88-MM-301		CROWLEY
	BURKE	JOHN	M	88-MP-085		BARKER
BURKE TECHNOLOGIES INC. BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	CARROLL	JAMES	V	88-MM-258		CROWLEY
	LATHORE	WALLACE	E	88-NE-132		BERRY
		SAM		88-MM-247	A	NACHMAN
		POGEL		88-MM-221	D	CERVEY
CCA BIOMEDIATION SYSTEMS DIVISION CVD EQUIPMENT CORPORATION CALIFORNIA ADVANCED INTEGRATION	CHANDRAN	RAVI		88-NE-092		MALLOY
	KAMM	MARTHA		88-MM-262		CROWLEY
	WEBSTER	DAVID	W	88-MM-280		CROWLEY
	COHEN	DONALD	S	88-MM-148	A	NACHMAN
CALIFORNIA INSTITUTE OF TECHNOLOGY	POK	GEOFFREY	C	88-MM-270		NACHMAN
	MCLEICE	ROBERT	J	88-MM-327	A	MILLER
	VARIY	ANNON		88-NE-131	A	GILES
		JACOBO		88-MP-035	A	SCHLOSSER
CARNEGIE-MELLON UNIVERSITY	BIELAK	WILLIAM		88-MM-430	A	NACHMAN
	MUSA	MARK	H	88-MM-358	A	NACHMAN
	KRYDER	DAVID	M	88-NE-147		WITT
	MCREDON	STEVEN	E	88-MM-396	A	MAKSMAN
CASE WESTERN RESERVE UNIVERSITY	SHREVE	JOSEPH	V	88-MM-302		CROWLEY
	LEE	JAMES	S	88-NE-175	D	WITT
	TIEN	GERRARD		88-NA-237	A	ATKIN
	WELSCHE	SUNAM		88-NE-113		ROSENSTEIN
CENTER FOR REMOTE SENSING	GANGULY			88-NA-080		NACHMAN
				88-MC-083		KORNER
				88-NE-084		KORNER
				88-NE-053		GILES
CENTRO DI CULTURA SCIENTIFICO A VOLTA CERAMICS PROCESS SYSTEMS CHARLES EVANS & ASSOC. CHEMICAL DYNAMICS CORPORATION	CASATI	GIULIO	D	88-MM-189		NACHMAN
	MODGE	JAMES	M	88-NE-066	A	MARITOS
	HERMAN	MICHAEL	S	88-NE-080		WITT
	MURPHY	C		88-NE-091	A	MALLOY
CHIRP CORPORATION CITY COLLEGE - CUNY	SHAMINATHAN	P	K	88-MC-159	A	DAVIS
	ALTES	RICHARD	A	88-MM-135		PREGLY
	ALPANO	ROBERT	R	88-NE-141		GILES
		MARK		88-NE-184		WITT
CLARKSON UNIVERSITY	BROWN	MARK		88-MM-369		WOODRUFF
	AMHADI	GOODARZ		88-NA-234	D	MELIN
	BAROUCH	ETTAN		88-NA-258		NACHMAN
	POKAS	DAVID	J	88-RD-009	A	C/VENDER
CLEMSON UNIVERSITY COLLEGE OF STATE ISLAND/CUNY COLLEGE OF WILLIAM AND MARY	KAUP	MARK	W	88-MM-417	A	NACHMAN
	KOCH	MARK	L	88-NE-038		GILES
	LASKAR	ALAN	M	88-MM-194		ROSENSTEIN
	EMERICH	VIGAL	R	88-MM-208	A	BERRY
	DOUGLAS		88-MM-368		WOODRUFF	
	GEORGE		88-NA-271		WCMICHAEL	

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COLORADO SCHOOL OF MINES		WAGIN	FRANK	G	88-MM-356	D	NACHMAN
COLORADO STATE UNIVERSITY		INS	GERARD P	MAR	88-NC-168		ULRICH
		COTTON	WILLIAM	R	88-NC-183	W	KOERMER
		POORE	AUBREY		88-MM-449		MILLER
		REITER	ELMAR	R	88-NC-152		KOERMER
		ROBINSON	GARY	Y	88-NE-176		MALLOY
		ROCCA	JORGE	J	88-MM-110	A	SCHLOSSER
		SHIVASTAVA	JAYA		88-MM-167	A	WOODRUFF
		PATEL	DINESH		88-MM-162	D	WEINSTOCK
COLUMBIA UNIVERSITY		EISENTHAL	KENNETH	B	88-NC-073		BURGGRAB
		ROBBINS	HERBERT	E	88-NC-187	A	MATUSZAK
		ROBINSON	DAVID	A	88-MM-462		WOODRUFF
		SPIEGEL	EDWARD	A	88-NC-188		KOERMER
		TURRO	NICHOLAS	J	88-MM-141	A	RAOOSAT
		PALMER	HOWARD	B	88-NC-177		MATUSZAK
COMBUSTION INSTITUTE		IDENTIFIED	YET		88-NA-150	A	BIRKAN
COMPENSABLE SOLICITATION		STM	GEORGE	C	88-NL-060	A	FREGLY
COMPUTER CORP		MANHARDT	P		88-NA-136		MCMICHAEL
COMPUTATIONAL MECHANICS CONSULTANTS INC		VIDE	JOSEPH	D	88-MM-089		MCMICHAEL
COMPUTER & INFORMATION SCIENCES, INC.		LOPGRIN	CHRISTOPHER	B	88-MM-250		CROWLEY
COMPUTER AIDED PLAN & SCHEDULE INC.		LOCK	EVAN		88-MM-283		CROWLEY
COMPUTER COMMAND & CONTROL COMPANY		WEISINGER	RICHARD	B	88-MM-286	A	CROWLEY
COMPUTER PERFECTION UNLIMITED (CPU)		GLANCE	DAVID	M	88-MM-229		CROWLEY
CONCEPT ANALYSIS CORPORATION		BESSEL	ALAN	J	88-NE-064		ROSENSTEIN
CONCEPT TECHNOLOGY		BILANIM	GAD	M	88-MM-252		CROWLEY
CONTINUUM DYNAMICS, INC.		GILAD	JOHN		88-NA-196		TISHKOFF
CORIELL INSTITUTE FOR MEDICAL RESEARCH		GUCKENMEIER	HEALEY		88-NL-165		BERRY
CORNELL UNIVERSITY		HOLMES	PHILIP	J	88-MM-459		NACHMAN
		MOUSTON	PAUL	L	88-MM-174	A	NACHMAN
		LIBOFF	R		88-MM-443		NACHMAN
		NATION	JOHN	L	88-NC-119	D	MODARCEK
		STUART	JOHN	L	88-NE-182		WITT
COVOX INC.		DYMSKY	ARKADY	S	88-MM-126	A	BARKER
CREARE INC. RESEARCH & DEVELOPMENT INC		STACY	W		88-NA-110		NACHMAN
CRYSTALLUME		RAVI	K	V	88-NA-094		MCMICHAEL
		PAVICO	K	V	88-NE-144	A	WEINSTOCK
DMA COMPOSITE SPECIALITIES, INC.		DOLONY, JR	JOSEPH	F	88-NA-116		MARTOS
DATANAMICS COMPUTER CORPORATION		WHITE	MILTON		88-NE-093	A	MALLOY
DBA JAG INDUSTRIES		MOLT	ALBERT	C	88-MM-059		ROSENSTEIN
		G. DEACON	DAVID	A	88-MM-420		WAKSMAN
		O'KEEF	ANTHONY		88-NA-172		MU
DECISION SCIENCE CONSORTIUM INC		LASKY	KA'MRYN	B	88-NE-107		ROSENSTEIN
		LEDDO	JOHN		88-MM-059	A	SCHLOSSER
DEPT OF THE INTERIOR		CHAMBERLAIN	PETER		88-MM-287		CROWLEY
DEVICE RESEARCH INSTITUTE		WANG	CHENG	T	88-NL-137		FREGLY
DIAMOND MATERIAL INSTITUTE, INC.		ROBA	RICHARD		88-NA-156	A	MU
					88-MM-282		CROWLEY
					88-NE-103		MALLOY

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DOWNLAND-BACH CORPORATION	SELFRIDGE	SCOTT		88-NA-190		TISHKOFF
ORNLXEL UNIVERSITY	GILMORE	ROBERT	A	88-NP-142		SCHLOSSER
DUKE UNIVERSITY	CRUMBLISS	A.	L	88-NC-208	D	BURGGRAB
	MADEV	JOHN M.	M	88-NP-092	A	SCHLOSSER
	SCHAEFFER	DAVID	G	88-NP-095	A	SCHLOSSER
E C JORDON COMPANY	MAGEE	BRIAN	M	88-NM-276		NACHMAN
ECOVA CORPORATION	MAMAFFEY	WILLIAM	R	88-NL-224	D	CERVENY
EPA-ENVIRONMENTAL RESEARCH LAB	LOUX	NICHOLAS	T	88-NL-216	D	CERVENY
	MCKIM	JAMES	M	88-NL-198		CERVENY
EAGLE RESEARCH GROUP, INC.	SQUIRE	ROBERT	K	88-NP-072		PRINCE
EASTERN SPACE & MISSILE CENTER	KENNEDY	MICK		88-NP-036	A	SMITH
	BOACHE	PATRICK	J	88-NP-138	A	SMITH
ECODYNAMICS RESEARCH ASSOCIATION INC	CARONE	EDWARD	P	88-NM-166	A	NACHMAN
EDGEWISE SENSOR PRODUCTS	MALCOLM	GERALD	M	88-NP-070		PRINCE
EIDETICS INTERNATIONAL INC.	NG	POH	M	88-NA-174		MELIN
ELECTRO MAGNETIC APPLICATIONS INC	LEDERMAN	BURTON	E	88-NP-050		RADOSKI
ELECTRO-KINETIC SYSTEMS, INC.	CHAM	PETER	S	88-NE-188		WEINSTOCK
ELECTRO-OPTIC CORPORATION	LEPPERSON	PETER		88-NE-083		MALLOY
ELECTRONIC DESIGN CONSULTANT	KAUFMAN	MYRON		88-NE-076		MITT
EMURY UNIVERSITY	SCHMIDT	RUDOLF		88-NA-219	A	BIKARN
	COX	TIMOTHY		88-NM-407	D	CROWLEY
ENERGY OPTICS, INC.	CLINTON	JAMES		88-NP-049		SCHLOSSER
ENERGY SCIENCE LABORATORIES, INC.	TATON	FRANK	B	88-NE-101		WEINSTOCK
ENGINEERING ANALYSIS, INC.	CARMELL	RICHARD	E	88-NA-078		MCMICHAEL
ENGINEERING DEVELOPMENT LAB. INC.	WUANG	MICHAEL	M	88-NA-138		MCMICHAEL
ENRICO LEVI, INC.	SHORE	JOHN		88-NP-054		RADOSKI
ENTROPIC SPEECH INC.	BAKSI	SANDRA	M	88-NM-235		CROWLEY
ENVIRONMENTAL PROTECTION AGENCY	CHADWICK	ROBERT	M	88-NL-222	D	CERVENY
	KENNEDY	ROBERT	S	88-NL-217	A	CERVENY
ESSER CORPORATION				88-NL-125		TANGNEY
				88-NL-126		TANGNEY
				88-NL-128		BERRY
EUROPEAN OFFICE OF AERO RSCH AND DEVELOP	MCDUGAL	JAMES	M	88-NL-207	A	TANGNEY
	SMITH, LT COL. USAF	LAREL	K	88-NE-051		MALLOY
EARLIER UNIVERSITY	MALL	PHILIP		88-NM-355	A	NACHMAN
ENDTECH INC.	MOYLE	IAN	M	88-NA-105		MELIN
				88-NA-106		MELIN
FACC PERCEPTRONICS, INC.	GANNETT	ROGER	J	88-NM-261		CROWLEY
	KHALSA	OHARMA SINGH		88-NM-260		CROWLEY
FANTOZZI COMPANY, INC.	PANTOZZI	MARK	M	88-NA-177		NACHMAN
PELTECH	ELIAS	LUIS		88-NP-084		BARRER
FLORIDA A&M UNIVERSITY	JONES	HERBERT	M	88-NC-123	A	DAVIS
	LORENZO	LUIZ	B	88-NA-262		MELIN
FLORIDA ATLANTIC UNIVERSITY	PERMANOZ	EDUARDO		88-NA-176	A	WAKSHAM
FLORIDA STATE UNIVERSITY	WEINER	ALLAN	M	88-NC-098	A	GOERHER
FLOW INDUSTRIES INC	JOU	WEN-HUEI		88-NA-091		MCMICHAEL
	MENON	SURESH		88-NA-073		TISHKOFF

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FLUID PHYSICS INC.	TRACI	RICHARD		M	88-NA-154		MCMICHAEL
FORMAL SYSTEMS DESIGN & DEVELOPMENT INC	STUCKWISCH	STEVE			88-NA-096		MCMICHAEL
FOSTER-MILLER INC	DRUY	MARK		A	88-NC-069	A	ULRICH
					88-NC-070	A	ULRICH
					88-NC-185	A	ULRICH
FOUR DIMENSIONS, INC	LUSIGNEA	RICHARD		M	88-NC-071		ULRICH
GEL-TECH, INC.	CHEN	JAMES			88-NE-085		MALLOY
GENERAL ANALYTICS CORPORATION	NOQUES	JEAN-LUC			88-NC-171		ULRICH
	ADAMIAN	G.			88-NA-081		MCMICHAEL
	SARAFYAN	D.			88-NA-236		CROWLEY
GENERAL ATOMICS	MILL	DALE			88-NA-265		MU
GENESIS COMPUTER PRODUCTS INC	KELLY	WALTER			88-NA-082		BIRKAM
GEORGE MASON UNIVERSITY	WASH	STEPHEN			88-NA-202	D	MILLER
GEORGETOWN UNIVERSITY	SMULSON	MARK		E	88-NC-233		CERVENY
	DELEVIE	ROBERT			88-NC-115		WILKES
GEORGIA TECH RESEARCH CORPORATION	FLANNERY	M		R	88-NP-105	A	KELLEY
	PRICE	EDWARD			88-NA-250		BIRKAM
GEORGIA UNIV RESEARCH FOUNDATION INC	BRUCKNER	JAMES		V	88-NL-106	A	CERVENY
	KING	R. BRUCE			88-NC-100	A	MATUSZKO
GORDON RESEARCH CONFERENCES INC	GARSCADDEN	ALAN			88-NP-096	A	KELLEY
	OTMER	MMS		G	88-NA-295	A	NACHMAN
GRAY FRESHWATER BIOLOGICAL INSTITUTE	WACKETT	LAWRENCE		P	88-NL-218		CERVENY
H.C.C., SCIENCE & TECHNOLOGY INC.	GORDON	GORDON			88-NC-194		ULRICH
HC CHEMICAL RESEARCH & SERVICE CORP.	MSU	MING-TA		S	88-NC-160		MATUSZKO
HITEC INC	KATAKOS	DEMETRIOS			88-NA-461		WOODRUFF
HMC, UBC CHECHT-NIELSEN NEUROCOMPUTER)	PALKER	DOUGLAS		A	88-NM-237		CROWLEY
HARRIS CORPORATION	BENSTEIN	DENNIS		S	88-NM-315		CROWLEY
	HYLAND	D		C	88-NA-248		NACHMAN
	RICHTER	STEPHEN			88-NM-361		CROWLEY
HARVARD MEDICAL SCHOOL	MOSSON	J.		A	88-NL-197		BERRY
HARVARD UNIVERSITY	GABRIELSE	GERALD			88-NP-042	A	PRINCE
	GROSS	BARBARA		J	88-NM-333	A	WAKSMAN
HARVEY MECAM ASSOCIATES	MECAM	HARVEY		D	88-NE-054		GILES
HONEYWELL INC	GUNA	ALOKE			88-NE-140		GILES
HOWARD UNIVERSITY	REISS	ROBERT			88-NA-268		MARTOS
HUGHES AIRCRAFT CO	KLEIN	M.		B	88-NP-134	A	SCHLOSSER
HUGHES RESEARCH LABORATORIES	ELWELL	DENNIS		F	88-NE-039		MALLOY
HYESON (HELEN) CHU ZEMANY	ZEMANY	PAUL		D	88-NM-255		CROWLEY
IAP RESEARCH, INC.	BARBER	JOHN		P	88-NA-164		NACHMAN
IRT CORPORATION	PHELPS	DAVE		A	88-NP-051		BARKER
ILLINOIS INSTITUTE OF TECHNOLOGY	BUDIMAN	JEFFRY			88-NA-274		BOYCE
IMAGE CONVERSION DEVICES	SHOOKES	JOHN		C	88-NM-265		CROWLEY
IMPERIAL CONS. & ENGR. CO., INC.	ROGERS	CYNTHIA			88-NL-140		FRISGLY
INDIANA UNIVERSITY FOUNDATION	FRANCO	JOHN		V	88-NA-451		WAKSMAN
	GANNON	DENNIS		B	88-NM-350		WAKSMAN
INDIANA UNIVERSITY OF PENNSYLVANIA	WHITSON	CHARLES		S	88-NL-059	A	TANGNEY
INDUSTRIAL DETECTION TECHNOLOGY CORP.	LOVENSTINE	DENNIS			88-XD-019	A	CAVENDER
INDUSTRIAL QUALITY INC	JONES	MARK		R	88-NE-099		WEINSTOCK
		THOMAS		S	88-NE-058		ROSENSTEIN

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INFORMATION & CONTROL SYSTEMS INC.		MALVO	NESIM		88-MM-231		CROWLEY
INSTITUTE FOR STUDY OF INTELLIGENT SYS.		EISENHARDT	ROBERT	G	88-NE-178		GILES
INT'L BUSINESS MACHINE CORP		MCCLELLAND	GARY	M	88-NC-072	A	BURGRAF
INT'L META SYSTEMS INC.		THAMES	JOSEPH	M	88-MM-228		CROWLEY
					88-MM-232		CROWLEY
					88-MM-239		CROWLEY
					88-MM-240		CROWLEY
					88-MM-246		CROWLEY
INT'L NEURAL NETWORK SOCIETY		GROSSBERG	STEPHEN		88-NE-150	A	GILES
INTEGRATED SYSTEMS, INC.		KOSUT	ROBERT	L	88-MM-284		CROWLEY
INTELLIGENT SIGNAL PROCESSING		HONG	JAE	V	88-NA-178		NACHMAN
					88-NA-193		NACHMAN
			Z	Y	88-NA-108		MCMICHAEL
			ZIM	Y	88-NA-235		MELIN
INTELLIGENT SYSTEMS INTEGRATION INC.		ROSS	TIMOTHY	J	88-NA-122		MARITOS
					88-NA-215	A	MU
					88-NE-060		ROSENSTEIN
					88-MM-289		CROWLEY
			ZIM		88-MM-391		CROWLEY
IOWA COLLEGE		YUN LU	DONALD		88-MM-330	A	NACHMAN
IOWA STATE UNIV OF SCIENCE AND TECH		MARTIN	STEVE	W	88-NC-213		WAKSMAN
		NG	CHEUK-YIU		88-NC-204		ULRICH
IRVINE SCIENCE ASSOCIATES		WESSEL	FRANK	J	88-MP-083		MODARCZYK
J. A. WOOLLAM COMPANY		WOOLLAM	JOHN	A	88-NE-078		BARKER
					88-NE-089		MITT
					88-NE-090		MALLOY
JAYCOR		GLADD	M		88-MP-106	A	BARKER
JET PROPULSION LABORATORY		BELLAN	JOSETTE	T	88-NA-209		TISHKOFF
JOHNS HOPKINS UNIVERSITY		BLUM	BRUCE	I	88-MM-422	A	WAKSMAN
		ELLIS	J. HUGH		88-MM-433	D	MILLER
		KRUGER	JEROME		88-NE-171	A	ROSENSTEIN
		MENG	CHING-I.		88-NC-184		KOPMER
		SEJNOWSKI	TERRENCE	J	88-NE-133	A	GILES
		YARKONY	DAVID	R	88-NC-197	W	DAVIS
		OLTKER	V.	I	88-MM-243		CROWLEY
JOSEPH TECHNOLOGY CORPORATION		WIDOM	MICHAEL	R	88-NC-088		MATUSZKO
KMS FUSION INC		GARFNEY	EDWARD	S	88-NA-170		BOYCE
KTECH CORPORATION		RAHN	ALEXANDER	G	88-MM-401		NACHMAN
KANSAS STATE UNIVERSITY		KLEIN	GARY	A	88-ML-136		FREGLY
KLEIN ASSOCIATES, INC.		KINNEY	WAYNE	I	88-NE-157	D	MITT
KRYSLIS CORPORATION		MCCAMM	MICHAEL	P	88-MP-075		SCHLOSSER
KUO & ASSOCIATES		CRAVENS	DEWITT	J	88-MP-086		PRINCE
L&M ASSOCIATES, INC.		LOOS	MENDICUS	G	88-NC-094		KORNER
L&M RESEARCH LAB		BLOCH	SYLVAN		88-MP-062		SCHLOSSER
LARGO SCIENTIFIC INC.		SCHLECHT	RICHARD	M	88-MP-088	A	SCHLOSSER
LASER GENICS CORPORATION		PAPURT	DAVID	C	88-MP-076		SCHLOSSER
LASER METRIC SYSTEMS, INC.		BROWN	DAVID		88-MP-077		SCHLOSSER
LASER TECHNOLOGY ASSOCIATES		SCHLECHT	RICHARD	J	88-NC-077		ULRICH
LASERGENICS CORPORATION		KANSA	EDWARD		88-MM-398		NACHMAN
LAWRENCE LIVERMORE LAB (CALIF UNIV)							

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LEHIGH UNIVERSITY		NOWAK	PAUL	F	88-MP-056	A	SMITH	
		YOUNG	K.	O	88-NA-261		NACHMAN	
		PARULA	RICARDO		88-MP-164		SCHLOSSER	
		ROCKWELL	DONALD	O	88-NA-256		MELIN	
LOCM ENTERPRISES		SMITH JR	CHARLES	R	88-NA-203		MCMICHAEL	
		LOCHMILLER	ALAN	M	88-NA-180		BIRKAM	
		LONG	LYLE	N	88-NA-124		MCMICHAEL	
		WANG	S	C	88-ME-122	A	MALLOY	
LOCKHEED MISSILES & SPACE CO INC		PARMER	J DOYNE		88-MM-424	A	NACHMAN	
		GERWIN	RICARD		88-MP-109		SMITH	
		VOGEL	MERBERT		88-MP-048		SMITH	
		CHARALAMPOPOULOS	TRYFON	T	88-NA-227		TISHKOFF	
LOS ALAMOS SCIENTIFIC LAB (CODE)		RUSSO	PAUL	S	88-MC-181		DAVIS	
		SHOPNER	WILLIAM	P	88-ML-169		TAMONEY	
		WU	ERN-RONG		88-NA-152		MCMICHAEL	
		MADSEN	EUGENE	L	88-ML-223	D	CERVENY	
LOS ALAMOS TECHNICAL ASSOCIATES INC		BUCKMAN	JAY	A	88-NA-140		NACHMAN	
		EPSTEIN	RAY	L	88-MM-254		CROWLEY	
		ENLERT	THOMAS	C	88-ML-238	A	TAMONEY	
		DANES	ROBERT	L	88-NA-236	A	TISHKOFF	
LOUISIANA STATE UNIVERSITY					88-MM-241		CROWLEY	
					88-MM-242		CROWLEY	
					88-MM-253		CROWLEY	
					88-ME-139	A	WITT	
LOYOLA UNIVERSITY		ANTONIADIS	DIMITRI	A	88-MP-150		BARBER	
		BENEPI	GEORGE	K	88-NC-192		ULRICH	
		BOWEN	HARVEY	P	88-NA-161	A	BIRKAM	
		CHANG-DIAZ	MICHAEL	P	88-NA-198	A	MARITOS	
MEGA RESEARCH INC.		CLEARY	JAMES	C	88-MC-153		KOERNER	
		FAY	JOHN	M	88-MC-212		KOERNER	
		POSTER	E		88-NA-239	A	MELIN	
		GREITZER	CHARLES	C	88-NA-264		BOYCE	
MAINSTREAM ENGINEERING CORPORATION		LADD	R	M	88-ME-153		ROSENSTEIN	
		LATAMISION	JAMES	B	88-MM-460		MILLER	
		ORLIN	DAVID	E	88-MP-097		KELLEY	
		PRITCHARD	DONALD	R	88-ME-172	A	WEINSTOCK	
MARINE BIOLOGICAL LABORATORY		SADOMAY	DIETMAR	I	88-MC-103	A	MATUSZKO	
		SEYFERTH	JEFFREY	S	88-MC-201	A	DAVIS	
		STEINFELD	S.	V	88-MC-198	D	BURGGRAP	
		SUNDER	CARL	M	88-ME-042	A	MALLOY	
MARQUETTE UNIVERSITY		THOMPSON	ANDREAS	H	88-NA-279		NACHMAN	
		VON FLOTOW	J	T	88-MC-075		KOERNER	
		CHANG	W	M	88-MC-166	A	ULRICH	
		ADAMS	JOHN	E	88-ME-137		MALLOY	
MARTINGALE RESEARCH CORPORATION		BALLANCE	LARRY	A	88-MC-144	A	BURGGRAP	
		POPE	DAVID	N	88-MC-147		ULRICH	
		WEITZ	SAILLENDRA	P	88-NA-123		MARITOS	
		CHATTERJEE	MICHAEL	M	88-NA-130		MCMICHAEL	
MATERIALS SCIENCES CORPORATION		PAIDOUSSIS	STEVEN		88-ML-232		TAMONEY	
		ZUCKER						
MCGILL UNIVERSITY								
MASSACHUSETTS INSTITUTE OF TECHNOLOGY								
MASSACHUSETTS TECHNOLOGICAL LABORATORY								
MATERIALS RESEARCH SOCIETY								

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MEMPHIS STATE UNIVERSITY	GEORGE	E. OLUSEGUN			88-NM-456		WOODRUFF
MENTOR TECHNOLOGIES, INC	BELZER	MITCHELL	R		88-NL-121		BERRY
MEOSCALE ENVIRON SIMUL & OPER INC	KAPLAN	MICHAEL			88-MC-175	A	KOERMER
METAMATIX INC.	KARYAMPUDI	V. MOHAM	B		88-MC-070		KOERMER
	MINCH	RICHARD			88-NA-185		MARITOS
	WILEMSKI	GERALD			88-NA-182		TISHKOFF
METRI WAVE INC.	WILLIAMS	WYMAN			88-ME-094		WITT
MIAMI UNIVERSITY	GUTTMAN	SHELDON	I		88-NL-244		CERVENT
MICHIGAN STATE UNIVERSITY	PALCO	ROBERT	E		88-NA-254	D	MCMICHAEL
	PRAMANIA	SARTI	E		88-NM-441		WARSMAN
	THOSKO	JAMES	E		88-NL-259		CERVENT
	COON	DARYL	E		88-ME-086		MALLOY
MICROTRONICS ASSOCIATES, INC.	PORSTHE	RONALD	E		88-ME-096		WITT
MILIMETER WAVE TECHNOLOGY, INC.	ESSLER	ROBERT	D		88-NA-121		MARITOS
MISSION RESEARCH CORP	GOPLEN	BRUCE	F		88-MP-107	A	BARKER
	STONE	STEVE	E		88-MP-065		PRINCE
	CHAMBERS	JANICE	E		88-NL-254		CERVENT
MISSISSIPPI STATE UNIVERSITY	COLEMAN	MUGH	M		88-NA-255		MELIM
MONTEREY TECHNOLOGIES, INC.	HENNESSY	ROBERT	T		88-NL-124		TANGNEY
MULTISPEC CORPORATION	SHEV	DAVID	M		88-MP-073		PRINCE
MY BUSINESS INC.	YEE	O.	J		88-NM-254		CROWLEY
NASA - LEWIS RESEARCH CENTER	MULARZ	EDWARD	C		88-NA-246	D	TISHKOFF
NMSU-PRIMATE RESEARCH INSTITUTE	COUCH	RONALD	J		88-NL-220	A	CERVENT
NOAA - R AND D ATMOSPHERIC PROGRAMS	MECHT	ALAN	D		88-MC-154	A	KOERMER
NANOPTICS INC.	BAMFORD	GARY	L		88-ME-104		MALLOY
NATIONAL ACADEMY OF SCIENCES	GILFEATHER	M. S. BLUMENTHA	L		88-NM-423	A	WARSMAN
	LONG	FRANK	S		88-NM-420	A	WOODRUFF
	RAMKA	ROBERT	M		88-MP-127		PRINCE
	SWARO	ROBERT	P		88-XD-013	A	CAVENDER
NATIONAL BUREAU OF STANDARDS	BOGGS	MARCIA	P		88-NM-387	A	CROWLEY
	CAVANAGH	PAUL	R		88-MC-427	A	MILLER
	NGUYEN	RICHARD	R		88-MC-214	A	BURGGRAP
	THOMSON	YINH	M		88-MC-232	D	ULRICH
NATIONAL INSTITUTE OF HEALTH	RICHMOND	ROBB	M		88-MC-211	A	TANGNEY
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	HILL	BARRY	S		88-ML-239	A	BARKER
	KREML	REGINALD	M		88-MP-133	A	KOERMER
NATIONAL SCIENCE FOUNDATION	BERG	JOSEPH	M		88-MC-139	A	PRINCE
	PRODYMA	MICHAEL	D		88-MP-115	A	WEINSTOCK
NAVAL RESEARCH LABORATORY	GOULARD	ROBERT	D		88-NA-067	A	TISHKOFF
	GRIFFIN	RICHARD	D		88-ME-117	A	GILES
	STU	MAROLD	M		88-ME-148	A	GILES
NELSON ASSOCIATES	NELSON	NORMAN	D		88-NA-285		CROWLEY
NEUROGEN	KUPERSTEIN	MICHAEL	D		88-NL-209		TANGNEY
NEW JERSEY ADVANCED TECHNOLOGY	KLAPPHOLZ	AARON			88-NM-230		CROWLEY
NEW JERSEY INSTITUTE OF TECHNOLOGY	GOODE	PHILIP			88-MP-128	A	RADOSKI
	MSU	C THOMAS			88-NA-257		MU
NEW MEXICO STATE UNIVERSITY	WILAS	YORICK			88-NM-300		WARSMAN
					88-NM-431		WARSMAN

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NEW YORK ACADEMY OF SCIENCES	BOCKMAN		DALE		88-NL-257	D	BERRY
	CONRAD		GARY	E	88-NL-258	D	BERRY
	DARSHMANURTI		KRISHNAMURTI	M	88-NL-246	D	BERRY
	BARNETT		MICHAEL	P	88-NL-248	D	BERRY
NEW YORK CITY TECHNICAL COLLEGE - CUNY	CAPLISCH		RUSSEL	E	88-NE-174		GILES
	LIU		TAI-PING		88-MM-432		NACHMAN
NEW YORK UNIVERSITY	PELLIONISZ		RODOLFO	R	88-NL-055	A	NACHMAN
	STONE		ERIC	J	88-NE-185		GILES
NIELSEN ENGINEERING AND RESEARCH CO	CHILDS		ROBERT	E	88-NL-205		BERRY
	MIRON		DAVID		88-NA-093		MCMICHAEL
			DAVE		88-NA-092	A	MCMICHAEL
			BOLINDRA	M	88-NA-216	A	MELIN
NORTH CAROLINA A AND T STATE UNIV	DUTTA		J		88-MM-411	A	NACHMAN
	BEDAIR		SALAH	M	88-NC-209		KOERNER
	PLEMONS		ROBERT	M	88-NE-035	A	MALLOY
	SHEARER		MICHAEL	J	88-MM-207	A	MILLER
NORTH STAR RESEARCH CORPORATION	ADLER		RICHARD	J	88-MM-416	A	NACHMAN
	BENJAMINSON		M.		88-MP-148	A	SMITH
	DICKSON		KENNETH	A	88-NL-247		CERVENY
	MC DANIEL		FLOYD	L	88-NL-120	A	CERVENY
NORTH STAR RESEARCH, INC.	SEILER		DAVID	G	88-NE-115		MALLOY
	SPANGLER		CHARLES	M	88-NC-173		DAVIS
	DELISI		DONALD	P	88-NC-158		KOERNER
	FRASER		ROBERT	B	88-NA-107		MCMICHAEL
NORTHERN ILLINOIS UNIVERSITY	FINE		MORRIS	E	88-NE-167	A	ROSENSTEIN
	PREEMAN		A	J	88-NE-154	A	ROSENSTEIN
	MADDAD		ABRAHAM	M	88-MM-394		CROWLEY
	MUPP		JOSEPH	T	88-NC-101		WILKES
NORTHWEST RESEARCH ASSOCIATES, INC.	LEWIS		ELMER	E	88-MM-383		WOODRUFF
	MARKS		TOBIN	J	88-NC-045	A	ULRICH
	MURA		TOSHIO		88-NA-224		MARITOS
	RATCLIFF		ROGER		88-NL-196		PREGLY
OPTIMA SYSTEMS, INC.	RATNER		MARK	A	88-NC-133		WILKES
	SERULER		ROBERT		88-NL-206	A	TANGNEY
	SHAM		SURENDRA	P	88-NA-167		WU
	SKCHIAN		LEON		88-MP-087		PRINCE
ORI, INC.	HARRISON, JR		EDWARD	J	88-NC-191		KOERNER
	MITCHELL		TOBY	J	88-MM-170		WOODRUFF
	KREITZBERG		CARL	M	88-NC-162		KOERNER
	STEWART		PAULA		88-XD-011	A	DIMOCK
OHIO STATE UNIV RESEARCH FOUNDATION	GUZHENEC		YANN	G	88-NA-253		MCMICHAEL
	OZGUNER		UNIT	J	88-NA-282		NACHMAN
	TARR		MELINDA		88-NL-069	A	CERVENY
	QUINN		JARUS	M	88-MP-043	A	SCHLOSSER
OHIO STATE UNIVERSITY					88-MP-044	A	SCHLOSSER
					88-MM-452	A	WAKSHAM
OPTICAL SOCIETY OF AMERICA							
OREGON GRADUATE CENTER FOR STUDY & RESEARCH							

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OREGON STATE UNIVERSITY PDA ENGINEERING PEDA CORPORATION	MPITSOS	GEORGE	J		88-ML-215		BERRY
	HACK	T	E		88-NA-195		MARITOS
	BAROINA	JORGE			88-NA-084		MCMICHAEL
PK CORPORATION PAL CONSULTANTS, INC. PAPYRUS SYSTEMS INC. PARASOFT CORPORATION PENNSYLVANIA STATE UNIVERSITY	HONG	S	K		88-NA-083		MCMICHAEL
	AZAKOS	P. PAPANTONI-	K		88-NH-403	0	WOODRUFF
	PAL	NICK			88-NP-071		PRINCE
	SIMANDONOR	KARL			88-ML-131		TANGNEY
	KOLAWA	ADAM			88-NA-153		MCMICHAEL
	BOMA	JERRY	L		88-NH-365		NACHMAN
	ALLCOCK	MARRY	R		88-MC-121		MATUSZKO
	BRASSEUR	JAMES	G		88-NA-249	A	MCMICHAEL
	DULIKRAVICH	GEORGE	S		88-NA-197	D	NACHMAN
	GORDON, III	BERNARD			88-NA-208		MCMICHAEL
PERS. IDENT. & ENTRY ACCESS CNTRL, INC. PHOENIX DIGITAL CORPORATION PHOTON RESEARCH ASSOCIATES INC PHOTON RESEARCH ASSOCIATES INC. PHYSICAL DYNAMIC INC	MAGER	WILLIAM	M		88-MC-170	A	MATUSZKO
	IRWIN	MARY JANE			88-NH-324	A	MILLER
	PANTANO	CARLO	G		88-NE-109	A	GILES
	ROY	RUSTUM			88-MC-182	A	ULRICH
	SANTAVICCA	DOMENIC	A		88-MC-097	A	ULRICH
	VEDAM	K			88-NE-241	A	TISHKOFF
	COLBERT	CHARLES			88-NE-118		MALLOY
	BROWN	RONALD	A		88-ML-123		CERVENY
	TURNER	J.			88-NE-052		GILES
	KEAT	JAMES	E		88-NA-278		NACHMAN
PHYSICAL DYNAMICS INC PHYSICAL RESEARCH INC. PHYSICAL SCIENCES INC	POONEY	WALTER	M		88-NH-279		CROWLEY
	WEST	BRUCE	J		88-NE-074	A	WEINSTOCK
	DUNKERTON	TIMOTHY			88-MC-086		KOERNER
	CAYLOR	MARK	J		88-MC-195		KOERNER
	ALLEN	MARK	G		88-NA-133		HELIN
	KRECH	ROBERT	H		88-NA-119		TISHKOFF
	RAWLINS	M	T		88-NP-055		KELLEY
	READ	MICHAEL			88-NA-159		TISHKOFF
	COLEMAN	RONALD	E		88-NP-091		BARKER
	GERBI	DIANA	J		88-NH-234	A	CROWLEY
POLYTECHNIC INSTITUTE OF NEW YORK POLYTECHNIC UNIVERSITY POTOMAC PHOTONICS INC. POTOMAS SYNERGETIC INC. (PSI) PRECISION COMBUSTION, INC. PRINCETON SCIENTIFIC ENTERPRISE, INC. PRINCETON UNIVERSITY	DUYDO	GABRIEL	P		88-MC-150		ULRICH
	KUO	SPENCER			88-NA-260	A	NACHMAN
	CHRISTENSEN	C. PAUL			88-NP-129	A	BARKER
	CORCORAN	V.	J		88-NP-093	A	SCHLOSSBER
	PFEFFERLE	WILLIAM	C		88-NP-063		PRINCE
	BLAIR	DAVID	M		88-NA-101		TISHKOFF
	ANDERSON	PHILLIP	M		88-NA-175		TISHKOFF
	BERNASEK	STEVEN	L		88-NE-114	A	WEINSTOCK
	BOGDANOFF	SEYMOUR	M		88-MC-137	A	BURGGRAB
	DICKINSON	BRADLEY	M		88-NA-277	A	SAKELL
JU KUNG	GLASSMAN	IRVIN			88-NH-313	A	NACHMAN
					88-NA-226	A	TISHKOFF
					88-NA-245	A	TISHKOFF
		JIANM-WEN			88-NA-238	A	MARITOS
		SUN-YUAN			88-NE-040	A	GILES

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
PROGRESSIVE LEARNING SYSTEMS PURDUE RESEARCH FOUNDATION	LUSTIG		IRVIN		88-NM-196		MILLER
	ONG		NAI-PHUAM		88-NE-177	A	WEINSTOCK
	REIBMAN		AMY	R	88-NM-385		WOODRUFF
	STEELE		J	M	88-NM-370		WOODRUFF
	SUCKER		SYMON		88-NP-147	A	BARKER
	THOMPSON		MARK	E	88-NC-196		ULRICH
	TSUI		D.	C	88-NE-134	A	WITT
	BASS		MICHAEL		88-NL-139		FREGLY
	CHEN		WAI-PAM		88-NM-233		WU
	CHEN-YU SHEU		PHILLIP	A	88-NM-373		WAKSMAN
QUALCOMM, INC. QUANSCAN, INC.	COOPER JR		JAMES		88-NE-187		WITT
	KING		SAMFORD	B	88-NM-242	A	TISHKOFF
	MARINESCU		GALEN	C	88-NM-281		TISHKOFF
	VITERBI		QAN	J	88-NM-309		WAKSMAN
	WANG		ANDREW	J	88-NM-259	A	WAKSMAN
	WEST		CHENG	T	88-NE-102		WITT
	STORTI		PAUL	E	88-NE-105		MALLOY
			GEORGE	M	88-NP-067		PRINCE
			ROBERT		88-NE-072		WEINSTOCK
			WILLIAM	A	88-NE-082		WITT
RENSSELAER POLYTECHNIC INSTITUTE	BOYLE		JOE	L	88-NM-352		MILLER
	BATIGAN		JOE	L	88-NM-231		WU
	CHOW		JOE	M	88-NM-149		BOYCE
	INTERANTE		LEONARD	V	88-NM-372		CROWLEY
	LEUNG		CHUN	M	88-NC-105		ULRICH
	EL-LAITHY		AMRO	M	88-NP-066	A	RADOOSKI
	SYNES		WILLIAM	M	88-NM-131		BOYCE
	AKIN		J.	E	88-NM-371	A	WAKSMAN
	BIRBY		ROBERT	E	88-NM-450		MILLER
	DENNIS JR.		JOHN	E	88-NM-339		MILLER
RESOURCE INTERNATIONAL INC. RICE UNIVERSITY	KIMSEY		JAMES	L	88-NM-357	A	MILLER
	PETERSON		GARY	L	88-NC-096	A	DAVIS
	CYNN		JEFFREY	L	88-NE-069		WEINSTOCK
	MARSHALL		DAVID	A	88-NL-253		TANGNEY
	LANGELIERS		JAMES	B	88-NE-126		ROSENSTEIN
	TAYLOR		JEAN	E	88-NM-191		TISHKOFF
	PRED S. ROBERTS		PETER L. HAMMER	E	88-NM-400	A	WAKSMAN
	LEBOWITZ		JOEL	L	88-NM-321	A	MILLER
	CHODHURY		B		88-NP-149	A	BARKER
	HERSH		GILBERT	M	88-NE-061		ROSENSTEIN
RUTGERS - THE STATE UNIVERSITY	SOMAYAJULU		Y.	V	88-NM-230		CROWLEY
	BLUM		VIGAL	R	88-NP-053		RADOOSKI
	CROSLY		DAVID	R	88-NC-218		MATUSEO
	GREEN		CAROL	E	88-NC-125		MODARCZYK
	MACDONALD		DIGBY	D	88-NL-146		CERVENY
	RUSPINI		ENRIQUE	M	88-NC-186		MATUSEO
			ARDEM		88-NM-414	A	WAKSMAN
					88-NM-415	A	WAKSMAN
					88-NE-049	A	MALLOY

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SSOD RESEARCH CORPORATION	KLIMKIEWICZ	WOJCIECH		88-MM-281		CROWLEY
SAM TECHNOLOGY, INC.	GEVINS	ALAN		88-MM-437		NACHMAN
SAN DIEGO STATE UNIVERSITY	MORGAN	NELSON	H	88-NL-127		PREGLY
	LEE	LONG	C	88-MP-121		SMITH
				88-MP-125		SMITH
SAN FRANCISCO STATE UNIV FOUNDATION INC	REED	STEPHEN	K	88-NL-236	A	PREGLY
SAN JOSE STATE UNIVERSITY	KUN	ERNEST		88-NL-170		CERVEY
SANJIA LABORATORIES	RODE	EDWARD	J	88-MC-217	D	BURGGRAB
	YU	RODNEY	D	88-MP-040		SCHLOSSBER
SATCON TECHNOLOGY CORPORATION	YU	ZENGQI		88-MP-061		SCHLOSSBER
SCIENCE APPLICATIONS INTERNATIONAL CORP.	MCCANEY	RICHARD		88-ME-068		WEINSTOCK
SCIENTIFIC COMPUTING ASSOCIATES INC	EIDELMAN	SHMUEL		88-MM-413		NACHMAN
	POULSER	DAVID	E	88-MM-222		CROWLEY
				88-MM-223		CROWLEY
SCIENTIFIC RESEARCH ASSOCIATES INC	CHEN	S	Y	88-MM-224		CROWLEY
	GRUBIN	MAROLD	L	88-NA-113		NACHMAN
	LIU	MANSUEY		88-ME-081	A	WITT
	SHAMROTH	STEPHEN	J	88-NA-074		MELIN
	THOMPSON	BRIAN	E	88-NA-075		NACHMAN
SCIENTIFIC RESEARCH ASSOCIATES, INC.	TOLPADI	ANIL	K	88-NA-211		MELIN
	GRUBIN	MAROLD	L	88-NA-115		TISHKOFF
	MEYVAPPAN	M		88-ME-136	A	WITT
SCIENTIFIC SYSTEMS INC.	GUSTAFSON	DONALD	E	88-ME-084		MALLOY
	LESTER	BRUCE	P	88-MM-215		CROWLEY
SEARCH TECHNOLOGY, INC.	ROUSE	WILLIAM	B	88-MM-214		CROWLEY
SIGMA TECHNOLOGIES	BOFILIOS	OTIMIRI		88-NL-138		PREGLY
SIGNITION, INC.	ZWEIG	GEORGE		88-NA-179		MARITOS
SILHOUETTE TECHNOLOGY, INC	DWYER	EUGENE	J	88-NL-210		TANGNEY
SMALL BUSINESS VENDOR	DOLEZAL	NUBERT		88-ME-075		WITT
SMITH-KETLEWELL EYE RESEARCH FOUNDATION	WCKEE	SUZANNE	P	88-NL-129		TANGNEY
	NAKAYAMA	KEI		88-NL-130		TANGNEY
SOFTROM, INC	SHERMAN	KEITH		88-NL-071	A	TANGNEY
SOUTHERN ILLINOIS UNIVERSITY	GENDRON	ROBERT	F	88-NL-051		TANGNEY
SOUTHERN METHODIST UNIVERSITY	SPECTOR	SCOTT	J	88-MM-251		CROWLEY
SOUTHWEST RESEARCH INSTITUTE	EUBANK	RANDALL	L	88-MM-312	A	NACHMAN
	LANKFORD	JAMES		88-MM-345		WOODRUFF
	LIN	CHIN	S	88-ME-194		ROSENSTEIN
SPACE TECH CORPORATION	ANDREWS	MICHAEL		88-MP-041	A	RAOOSKI
SPARTA INC.	LEISTEUTRE	GEORGE	A	88-MM-225		CROWLEY
SPIRE CORPORATION	HAVEN	VICTOR	E	88-MM-226		CROWLEY
	NAMAYAR	PEREYDOON		88-ME-095		MALLOY
STANFORD UNIVERSITY	BEASLEY	MALCOLM	R	88-ME-087		MALLOY
	BLOOM	DAVID		88-ME-152	A	WEINSTOCK
	BOYO	STEPHEN	H	88-MP-101	A	SCHLOSSBER
	RYER	ROBERT	L	88-MM-243		CROWLEY
	GRBIC-GALIC	DUNJA		88-MP-047	A	SCHLOSSBER
	MANSON	RONALD	K	88-NL-085	A	CERVEY
				88-NA-713	A	TISHKOFF

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STAR MICROWAVE STATE UNIVERSITY OF NEW YORK	MARRIS	S		E	88-NP-123	A	SCHLOSSER
	KATHAM	S.	THOMAS	E	88-NP-143		SCHLOSSER
	NIX	WILLIAM		D	88-MM-3-1	A	WOODRUFF
	SHOMAM	YOAV		M	88-NE-183		WITT
	ZARE	RICHARD		M	88-MM-249		WAKSHAM
	PHILLIPS	ROBERT		M	88-NC-112		DAVIS
	BUDHU	MUNIRAM		T	88-MP-012		BARKER
	DAVIS	ELIZABETH		F	88-NA-221		BOYCE
	GEORGE	THOMAS		L	88-NL-036		TANGNEY
	MAGSTROM	THOMAS		L	88-NC-207	A	DAVIS
STEVENS INSTITUTE OF TECHNOLOGY STRUCTURAL ANALYSIS TECHNOLOGY INC STRUCTURAL INTEGRITY ASSOCIATES, INC. SUPERCOM, INC.	LIN	D		L	88-MM-349		MACHMAN
	PRASAD	PARAS		N	88-NE-179		MALLOY
	SEIDL	MILOS		M	88-NC-161		ULRICH
	KARIL	MASAN		M	88-MP-145	A	SMITH
	KUD	AN-TU		M	88-NA-114		MACHMAN
	WONG	JAMES		T	88-NA-184		MARITOS
	NEU	JOHN		E	88-NE-145	A	WEINSTOCK
	LAQUADRA	GREGORY		E	88-MP-090		SCHLOSSER
	LAGRAPP	JOHN		B	88-MP-070		SCHLOSSER
	MONANTY	BIDHU		M	88-NA-214		HELIN
SYSTEMS APPLICATION INC. SYSTEMS DYNAMICS INCORP. SYSTRAM CORPORATION TLA RESEARCH INC. TECHMIC RESEARCH LABORATORIES TECHNION-ISRAEL INST OF TECHNOLOGY	REED	CHRISTOPHER		M	88-MM-233		CROWLEY
	CLARKE	MAROLD		M	88-NA-151		MCMICHAEL
	RAUSCHER	THOMAS		L	88-MM-227		CROWLEY
	ADLER	E.		A	88-MM-257		CROWLEY
	LAVIE	ROBERT		J	88-MP-080		RADOSKI
	FARUQI	PERETZ		C	88-MM-275		WOODRUFF
	KRITIKOS	PARHAM		M	88-NL-231		PREGLY
	LIN	AVI		M	88-MM-244		CROWLEY
	SHARER	JOHN		M	88-MM-245		CROWLEY
	MOENY	W.		M	88-MM-210		WAKSHAM
TECHNOLOGY SYSTEMS, INC. TELEPHOS ASSOCIATED TEMPLE UNIVERSITY SCHOOL OF MEDICINE TERRA CORP INC TETRA CORPORATION TEXAS A AND M RESEARCH FOUNDATION	CHEW	K		M	88-NE-073		WEINSTOCK
	PELOMAN	R.		M	88-MP-322		SMITH
	VANCE	J		M	88-MP-057		WOODRUFF
	OCMOA	O		O	88-MP-113	A	BARKER
	KEEFE	DAVID		D	88-MM-390		WOODRUFF
	MARTIN	CLYDE		F	88-NA-252	A	MACHMAN
	SMITH	W		L	88-NA-076		MARITOS
	GRAY	ROBERT		B	88-NA-183		BIRKAN
	KON	JOSEPH		R	88-MM-304		CROWLEY
	PREI	MELVIN		R	88-NE-077		WITT
THERMA-WAVE, INC TOPIC TECHNOLOGY TOR GEOPHYSICS CORPORATION TRINITY UNIVERSITY TUSKEGEE INSTITUTE UNISORT INC. UNITED STATES AIR FORCE ACADEMY UNITED TECHNOLOGIES RESEARCH CENTER UNIV OF ALBERTA	JEELANT	SMARK		R	88-MP-081		RADOSKI
	THOMPSON	JOSEPH		B	88-MP-068		PRINCE
	SAMPSON	ORMYN		B	88-XD-007	A	CAVEMOEP
	CASSENTI	M.		N	88-NA-249	A	MARITOS
	MICHEL	ROBERT		M	88-NE-097		WITT
	ELLIOTT	ROBERT		J	88-NC-169	A	MATUSZKO
					88-MM-273		MARITOS
					88-MP-111		SMITH
					88-MM-395		CROWLEY

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UNIV OF ARIZONA	ANDREWS	GREGORY	TOM	R	88-NM-377	A	NACHMAN
	GEMRELS	YATT	ARI	M	88-NP-135	A	RADOSSI
	GIBBS	GLEZER	RAYMOND	K	88-NA-158	A	SCHLOSSER
	KOSTUK	JUDITH	MARY	L	88-NE-125	A	MCMICHAEL
	LAUTER	D.	DAVID	R	88-NE-075	A	GILES
	PETERSON	DENNIS	BEHMAN	E	88-ML-240	A	TANGNEY
	UHLMANN	WIGLEY	EZIO	E	88-NC-215	A	FREGLY
	BAERER	BARLOW	BIGLIERT	E	88-NC-104	A	ULRICH
	BARLOW	WIGLEY	DAVID	E	88-NC-206	A	MATUZIKO
	BAVARIAN	WIGLEY	DAVID	E	88-NC-104	A	CROMLEY
UNIV OF ARKANSAS	ANDREWS	GREGORY	TOM	R	88-NM-377	A	NACHMAN
	GEMRELS	YATT	ARI	M	88-NP-135	A	RADOSSI
	GIBBS	GLEZER	RAYMOND	K	88-NA-158	A	SCHLOSSER
	KOSTUK	JUDITH	MARY	L	88-NE-125	A	MCMICHAEL
	LAUTER	D.	DAVID	R	88-NE-075	A	GILES
	PETERSON	DENNIS	BEHMAN	E	88-ML-240	A	TANGNEY
	UHLMANN	WIGLEY	EZIO	E	88-NC-215	A	FREGLY
	BAERER	BARLOW	BIGLIERT	E	88-NC-104	A	ULRICH
	BARLOW	WIGLEY	DAVID	E	88-NC-206	A	MATUZIKO
	BAVARIAN	WIGLEY	DAVID	E	88-NC-104	A	CROMLEY
UNIV OF CALIFORNIA	ANDREWS	GREGORY	TOM	R	88-NM-377	A	NACHMAN
	GEMRELS	YATT	ARI	M	88-NP-135	A	RADOSSI
	GIBBS	GLEZER	RAYMOND	K	88-NA-158	A	SCHLOSSER
	KOSTUK	JUDITH	MARY	L	88-NE-125	A	MCMICHAEL
	LAUTER	D.	DAVID	R	88-NE-075	A	GILES
	PETERSON	DENNIS	BEHMAN	E	88-ML-240	A	TANGNEY
	UHLMANN	WIGLEY	EZIO	E	88-NC-215	A	FREGLY
	BAERER	BARLOW	BIGLIERT	E	88-NC-104	A	ULRICH
	BARLOW	WIGLEY	DAVID	E	88-NC-206	A	MATUZIKO
	BAVARIAN	WIGLEY	DAVID	E	88-NC-104	A	CROMLEY
UNIV OF CALIFORNIA, SAN DIEGO	ANDREWS	GREGORY	TOM	R	88-NM-377	A	NACHMAN
	GEMRELS	YATT	ARI	M	88-NP-135	A	RADOSSI
	GIBBS	GLEZER	RAYMOND	K	88-NA-158	A	SCHLOSSER
	KOSTUK	JUDITH	MARY	L	88-NE-125	A	MCMICHAEL
	LAUTER	D.	DAVID	R	88-NE-075	A	GILES
	PETERSON	DENNIS	BEHMAN	E	88-ML-240	A	TANGNEY
	UHLMANN	WIGLEY	EZIO	E	88-NC-215	A	FREGLY
	BAERER	BARLOW	BIGLIERT	E	88-NC-104	A	ULRICH
	BARLOW	WIGLEY	DAVID	E	88-NC-206	A	MATUZIKO
	BAVARIAN	WIGLEY	DAVID	E	88-NC-104	A	CROMLEY
UNIV OF CENTRAL FLORIDA	ANDREWS	GREGORY	TOM	R	88-NM-377	A	NACHMAN
	GEMRELS	YATT	ARI	M	88-NP-135	A	RADOSSI
	GIBBS	GLEZER	RAYMOND	K	88-NA-158	A	SCHLOSSER
	KOSTUK	JUDITH	MARY	L	88-NE-125	A	MCMICHAEL
	LAUTER	D.	DAVID	R	88-NE-075	A	GILES
	PETERSON	DENNIS	BEHMAN	E	88-ML-240	A	TANGNEY
	UHLMANN	WIGLEY	EZIO	E	88-NC-215	A	FREGLY
	BAERER	BARLOW	BIGLIERT	E	88-NC-104	A	ULRICH
	BARLOW	WIGLEY	DAVID	E	88-NC-206	A	MATUZIKO
	BAVARIAN	WIGLEY	DAVID	E	88-NC-104	A	CROMLEY
UNIV OF CHICAGO	ANDREWS	GREGORY	TOM	R	88-NM-377	A	NACHMAN
	GEMRELS	YATT	ARI	M	88-NP-135	A	RADOSSI
	GIBBS	GLEZER	RAYMOND	K	88-NA-158	A	SCHLOSSER
	KOSTUK	JUDITH	MARY	L	88-NE-125	A	MCMICHAEL
	LAUTER	D.	DAVID	R	88-NE-075	A	GILES
	PETERSON	DENNIS	BEHMAN	E	88-ML-240	A	TANGNEY
	UHLMANN	WIGLEY	EZIO	E	88-NC-215	A	FREGLY
	BAERER	BARLOW	BIGLIERT	E	88-NC-104	A	ULRICH
	BARLOW	WIGLEY	DAVID	E	88-NC-206	A	MATUZIKO
	BAVARIAN	WIGLEY	DAVID	E	88-NC-104	A	CROMLEY
UNIV OF CINCINNATI	ANDREWS	GREGORY	TOM	R	88-NM-377	A	NACHMAN
	GEMRELS	YATT	ARI	M	88-NP-135	A	RADOSSI
	GIBBS	GLEZER	RAYMOND	K	88-NA-158	A	SCHLOSSER
	KOSTUK	JUDITH	MARY	L	88-NE-125	A	MCMICHAEL
	LAUTER	D.	DAVID	R	88-NE-075	A	GILES
	PETERSON	DENNIS	BEHMAN	E	88-ML-240	A	TANGNEY
	UHLMANN	WIGLEY	EZIO	E	88-NC-215	A	FREGLY
	BAERER	BARLOW	BIGLIERT	E	88-NC-104	A	ULRICH
	BARLOW	WIGLEY	DAVID	E	88-NC-206	A	MATUZIKO
	BAVARIAN	WIGLEY	DAVID	E	88-NC-104	A	CROMLEY

INSTITUTION	INVESTIGATOR			PROPOSAL	STATUS	PM NAME
	LAST NAME	FIRST NAME	MIDDLE			
UNIV OF COLORADO	NAYFEM	ADMAN	H	88-NE-163		WEINSTOCK
	ROE	R.	J	88-NC-216		DAVIS
	ANDERSON	AMY	E	88-NL-252		CERVENY
	BIPINGEN	SEDAT		88-NA-228		MCMICHAEL
	BRANCH	MELVYN	C	88-NA-210	A	BIRKAN
	CHOW	CHUEN-YEN		88-NA-206	A	MELIN
	FREYMUTH	PETER		88-NA-200	A	MELIN
	KASSOV	DAVID	R	88-NA-244	A	BIRKAN
	LEONE	STEPHEN	R	88-NC-093	A	MODARCZYK
	LUTIGES	MARVIN	W	88-NA-201	A	MELIN
UNIV OF COLORADO AT DENVER	MANDEL	JAN		88-MM-298		NACHMAN
	COHEN	MARION	F	88-NL-052	A	TANGNEY
	COOPER	DOUGLAS	J	88-MM-464		CROWLEY
	DABORA	ELI	K	88-NA-144		TISHKOFF
UNIV OF CONNECTICUT HEALTH CENTER	KOLTRACHT	ISRAEL		88-MM-410		NACHMAN
	TRAHIOTIS	CONSTANTINE		88-NL-195		TANGNEY
	ANGELL	T.	S	88-MM-434		CROWLEY
	BRILL	THOMAS	B	88-NA-171	A	BIRKAN
UNIV OF DELAWARE	DOLGOPOLSKY	ALEX		88-NA-146		HARITOS
	SANTOSA	PADIL		88-MM-208	A	NACHMAN
	VINSON	JACK	R	88-NA-129		WU
	COMBE	ROBERT	D	88-NC-193	A	MODARCZYK
UNIV OF DENVER	HANSTAD	MARVIN	A	88-NE-191		ROSENSTEIN
	GREEN	WILLIAM	A	88-XO-004		ROBISON
	CHILDERS	DOMALD	G	88-MM-381		WAKSHAM
	GREEN	DAVID	M	88-NL-076	A	TANGNEY
UNIV OF EDINBURGH	HAMMER	JACOB		88-MM-318		CROWLEY
	HENCH	D.	K	88-NC-205	A	ULRICH
	KALMAN	R.E.		88-MM-198		CROWLEY
	KHURI	ANDRE	I	88-MM-384		WOODRUFF
UNIV OF GEORGIA	OKORN	YNGVE	D	88-NC-202		DAVIS
	SORKIN	ROBERT		88-NL-237	A	TANGNEY
	CAMPFELD	E. ROONEY		88-MM-307	A	MILLER
	KING	BRUCE		88-MM-399		NACHMAN
UNIV OF IDAHO	STURCKLE	SAM		88-MM-273		MILLER
	AMUJA	MARENDRA		88-MM-178	A	WAKSHAM
	BEDIMTI	ROBERT	A	88-MM-272	A	WAKSHAM
	BENTSHAM	J.		88-NA-220	A	BIRKAN
UNIV OF ILLINOIS	CHEN	WAI-KAI	G	88-NA-280		NACHMAN
	EOEN	J.		88-NE-128		WITTMANN
	ESLAMI	HANSOUR		88-NP-118	A	SCHLOSSBER
	GELLMAN	ANDREW	J	88-MM-447		CROWLEY
UNIV OF IOWA	MEYATAT	A.	S	88-NC-151		BURGGRAF
	KROTOVIC	PETER	V	88-MM-455		WOODRUFF
	KRIVEN	WALTERAUD	M	88-MM-463		CROWLEY
	HAZUNDER	J		88-NE-186		ROSENSTEIN
UNIV OF KANSAS	ORONHUNDRO	STEPHEN	M	88-NE-146	A	ROSENSTEIN
	PLESS	VERA		88-NE-188		GILES
UNIV OF KENTUCKY				88-MM-294	A	MILLER

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INSTITUTION	INVESTIGATOR		MIDDLE	PROPOSAL	STATUS	PM NAME
	LAST NAME	FIRST NAME				
UNIV OF IOWA	PLEWA	MICHAEL	J	88-NL-147	A	CERVENY
	SACKS	JEROME		88-MM-332	A	WOODRUFF
	STILLMAN	GREGORY		88-NE-169	A	WITT
UNIV OF KENTUCKY	BURTON	DONALD	J	88-NE-170	A	MATUSZKO
	HARDIN	BOBBY	D	88-NC-068		BOYCE
UNIV OF MARYLAND	OKAJAKI	KENJI		88-NA-263	D	WEINSTOCK
	ANDERSON	ROBERT	S	88-NE-164		GALL
	ANKEN	SREERAMAMURTHY		88-NA-218	D	CERVENY
UNIV OF MARYLAND BALTIMORE COUNTY	ANTHAM	STUART		88-NE-160		ROSENSTEIN
	KEDEN	BENJAMIN	H	88-MM-297	A	NACHMAN
	LEE	CHI	C	88-MM-310	A	WOODRUFF
UNIV OF MASS MEDICAL CENTER	PRASLEE	D.		88-MP-045	A	SMITH
	GONDA	MUDRAPPA	S	88-MP-120	D	PRINCE
	POLLEN	DANIEL	A	88-MM-199		MILLER
UNIV OF MASSACHUSETTS	CHANG	CHING	S	88-NL-064		TAMONEY
	KARAS	FRANK	E	88-NA-272	A	BOYCE
				88-NC-179	A	ULRICH
UNIV OF MICHIGAN	ROSENBERG	ARNOLD	L	88-NC-180	A	ULRICH
	ROYER	JAMES	M	88-NC-189	D	ULRICH
	WELLES	ALBERT	R	88-NC-203		MILLER
UNIV OF MINNESOTA	COMINQU	MARIA		88-MM-179		WAKSMAN
	FARTH	GERARD	M	88-MM-320		TAMONEY
	GOLO	LINDA	S	88-NL-078	A	CAVENDER
UNIV OF MISSOURI	LEER	BRAM VAN		88-NA-230		MARITOS
	MERLIN	ROBERTO	G	88-NA-147	A	TISHKOFF
	POWELL	KENNETH	S	88-NL-161	A	CERVENY
UNIV OF NEVADA	SIMMONS	MILAGROS	D	88-MM-367		NACHMAN
	SMOLLER	JOEL	A	88-MM-193		MALLOY
	DANIELBERG	E	D	88-MM-374		NACHMAN
UNIV OF NEW HAMPSHIRE	ERNIE	DOUGLAS	M	88-NL-251		CERVENY
	KAMPER	RUTH		88-MM-389		NACHMAN
	LEE	E. BRUCE	M	88-NE-180	A	MALLOY
UNIV OF NEW HAMPSHIRE	TEMPIK	AVILA	J	88-MP-108		KELLEY
	BATH	XAVIER	J	88-NL-249	D	TAMONEY
	CALDWELL	CHARLES	M	88-MM-319	D	CROWLEY
UNIV OF NEVADA	CHICONE	CARMEN		88-MM-333		WOODRUFF
	DHARAMI	LOKESH	A	88-NA-200	A	CAVENDER
	KELLER	JAMES		88-MM-229	D	WOODRUFF
UNIV OF NEW HAMPSHIRE	MILLER	GLENN	C	88-NL-364		NACHMAN
	SHEPARD	HARVEY	K	88-NA-276		MARITOS
	SMITH	ROBERT	J	88-MM-436		WAKSMAN
UNIV OF NEW HAMPSHIRE	WRIGHT	JOHN	J	88-MM-442		WAKSMAN
				88-MM-462	D	CERVENY
				88-NL-225	A	CERVENY
UNIV OF NEW HAMPSHIRE				88-MM-201	A	NACHMAN
				88-NL-082	A	TAMONEY
				88-NC-092		WODARCZYK

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF NEW MEXICO	BRUECK	S	C. RANDALL	R	88-MP-139	A	SCHLOSSBER
UNIV OF NEW ORLEANS	TRUMAN		PETER		88-KO-017	A	CAVENDER
UNIV OF NEW YORK CITY	POLITZER		GREGORY		88-KO-016		DAVIS
UNIV OF NORTH CAROLINA	SIVASHINSKY		GEORGE	S	88-MM-347		NACHMAN
	FISHMAN		GEORGE		88-MM-386		WOODRUFF
	MILLER		ROGER	E	88-MC-107		MODARCZYK
	MURPHY		KATHERINE		88-MM-448		CROWLEY
	TOLLE		JON	W	88-MM-426	A	MILLER
UNIV OF NOTRE DAME	ODW		JOHN	D	88-MM-429		MILLER
	GAD-EL-MAR		MOHAMED		88-NE-181		MALLOY
UNIV OF OKLAHOMA	RICHEL		A	M	88-NA-149		MCMICHAEL
UNIV OF OREGON	NICHOLAS		KENNETH	M	88-MM-397		WAKSMAN
	BECK		JACOB	M	88-MC-176		MATUSZKO
UNIV OF PENNSYLVANIA	STEVENS		RENT	A	88-ML-053	A	TANGNEY
	BAJCEV		RUZEMA		88-ML-250		TANGNEY
	GARITO		A.	F	88-MM-329	A	WAKSMAN
	MASHIN		ZVI		88-MC-132	A	ULRICH
	VITEK		V		88-NA-222		MARITOS
UNIV OF PITTSBURGH	ROZIKOWSKI		ALAN	P	88-NE-165	A	ROSENSTEIN
UNIV OF PUERTO RICO	RODRIGUEZ		LEANDRO		88-NE-195		ROSENSTEIN
UNIV OF RHODE ISLAND	CRICKSHANK		A	M	88-ML-243	A	BERRY
UNIV OF ROCHESTER	RAY		STEVEN		88-NA-267		WU
	BROWN		CHRISTOPHER	M	88-MC-129		MATUSZKO
	EBERLY		JOSEPH		88-MM-353	A	WOODRUFF
UNIV OF SOUTH FLORIDA	MELISSINDS		A.	C	88-MM-453		WAKSMAN
	WILLIAMS		DAVID		88-MP-102	A	SCHLOSSBER
	BOWYER		KEVIN	R	88-MP-119		BARKER
UNIV OF SOUTHAMPTON	RAPACHANDRAM		A.	M	88-ML-058	A	TANGNEY
	DUKE		JOHN		88-MM-454	A	WAKSMAN
UNIV OF SOUTHERN CALIFORNIA	FEINBERG		JACK	M	88-MM-388		CROWLEY
	FORREST		STEPHEN	R	88-MC-156	A	MODARCZYK
	GAUDIOT		JEAN-LUCH		88-MP-104		SCHLOSSBER
	HO		CHIM-MING		88-MP-132		SCHLOSSBER
	MENDEL		JERRY	M	88-NE-123	A	GILES
	NEVATIA		R.		88-NE-124	A	GILES
	REDKOPP		LARRY		88-NA-102	A	HELM
	SAPONOV		MICHAEL		88-MM-348	D	WOODRUFF
	STEIER		WILLIAM		88-MM-375	A	WAKSMAN
	MITTIG		CURT	M	88-NA-125	A	MCMICHAEL
UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	ROSKO		BART		88-MM-190	A	CROWLEY
	LI		VICTOR		88-ME-111	A	GILES
UNIV OF STUTTGART	SCHRADE		HERBERT	O	88-MC-120	A	MODARCZYK
UNIV OF TENNESSEE	MAMANTOV		GLEB		88-ML-172	A	MODARCZYK
	SAYLER		GARY	S	88-NE-048	A	GILES
UNIV OF TEXAS	BITTNER		GEORGE	D	88-MM-336	A	WOODRUFF
					88-NA-207	A	BIRKAN
					88-MC-106	A	WILKES
					88-ML-061		CERVENY
					88-ML-214		BERRY

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF UTAH	DEWAR		MICHAEL J. S.		88-NC-066		MATUSIKO
	MARCUS		STEVEN	I	88-NM-445		CROWLEY
	MICHL		JOSEF		88-NC-155	A	MATUSIKO
	PARRY		ROBERT	W	88-NC-167		ULRICH
UNIV OF VIRGINIA	JOHNSTON		WILLIAM	A	88-NC-255		FREGLY
	MATHEWS		V. JOHN		88-NM-609		WOODRUFF
	LASIECKA		IRENA		88-NM-299	A	CROWLEY
	PAPANTONI-KAZAKOS		P.		88-NM-457		WOODRUFF
UNIV OF WASHINGTON	BREIDENTHAL		ROBERT	E	88-NA-127	A	TISHKOFF
	CHRISTIANSEN		WALTER	H	88-NA-202	A	MCMICHAEL
	CLARK		KENNETH	C	88-NC-210		KOERMER
	GESSNER		FRED	B	88-NA-270		MELIN
UNIV OF WESTERN ONTARIO	NELSON		THOMAS	D	88-NC-057	A	FREGLY
	OLSEN		LARRY	C	88-NP-137		SMITH
	ROCKAFELLAR		RALPH	T	88-NP-366	A	MILLER
	MITCHELL		BRIAN		88-NP-064	A	SMITH
UNIV OF WISCONSIN	ANDREN		ANDERS	W	88-NC-086	A	CERVENY
	CHANG		Y.	A	88-NC-119		MALLOY
	CRIM		P. FLEMING		88-NC-134		MODARIZK
	KURTZ		THOMAS	G	88-NM-380		WOODRUFF
UNIV OF WISCONSIN-EAU CLAIRE	LIN		CHUN	C	88-NM-408		WOODRUFF
	MANAGASARIAN		OLVI	L	88-NP-124		KELLEY
	NOHEL		JOHN	A	88-NM-458		MILLER
	PETERSON		RICHARD	E	88-NM-314	A	NACHMAN
UNIVERSAL ENERGY SYSTEMS INC	SLEMMOD		MARSHALL		88-NL-256		CERVENY
	WEST		ROBERT		88-NM-328		NACHMAN
	BUCHL		ROBERT		88-NC-109	A	MATUSIKO
	LUBRANO		ROBERT	A	88-XO-003	A	CAVENDER
UNIVERSAL SENSORS, INC.	BASIL		GLENN	J	88-NC-126		ULRICH
	VICTOR		GLENN	R	88-NL-122	A	CERVENY
	SMITH		SMITH	A	88-NM-271		WAKSMAN
	WILLIAMS		ELLEN	D	88-NL-068	A	TANGNEY
UNIVERSITY OF MICHIGAN	CALAMAN		DONALD	A	88-NM-211	A	BURGGRAF
	KEENER		ROBERT	W	88-NM-187		NACHMAN
	POWELL		KENNETH		88-NM-143		WOODRUFF
	ULLMAN		ROBERT		88-NC-067		MCMICHAEL
UTAH STATE UNIVERSITY	DOUCETTE		WILLIAM	J	88-NC-067		ULRICH
	SCHUMK		ROBERT	W	88-NC-174	A	CERVENY
	ULWICK		JAMES	C	88-NC-141		KOERMER
	WICKMAR		V.	B	88-NC-204		KOERMER
UT-LITY POWER GROUP	DESPANDEY		CHANDRA		88-NC-065		ROSENSTEIN
	LENHART		PAUL	G	88-XO-015	A	CAVENDER
	TOLK		MORRAN	H	88-NC-149	A	BURGGRAF
	LANGLEY		LAWRENCE	W	88-NA-188		TISHKOFF
VATELL CORPORATION	TALLEY		ROBERT	L	88-NA-166		TISHKOFF
	LEBERI		P.	W	88-NM-249		CROWLEY
	CHITTSOMBOON		TAMIT		88-NM-086		TISHKOFF
					88-NA-112		TISHKOFF

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INSTITUTION

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
VIRGINIA POLYTECHNIC INST & STATE UNIV	DODGELE	SIMHAPRASAD	S	88-NA-088		MCMICHAEL
	MARINARO, JR	RALPH	M	88-NC-079		KOERMER
				88-NC-080		KOERMER
				88-NC-081		KOERMER
VISTA RESEARCH CORPORATION	RAO	D	M	88-NC-082		KOERMER
				88-NA-095		MCMICHAEL
				88-NA-099		MELIN
				88-NA-100		MELIN
VRIJE UNIVERSITEIT	SUNDARAM	P		88-NA-087		MCMICHAEL
				88-NA-098		MELIN
				88-NE-173	D	WITT
				88-NA-378	A	CROWLEY
WADDAM SYSTEMS	ARMSTRONG	JAMES	R	88-NA-018	A	CAVENDER
	BURNS	JOHN	A	88-NA-446	A	CROWLEY
	MALLAUER, JR.	WILLIAM	L	88-NA-354	A	CROWLEY
	LINDNER	DOUGLAS	K	88-NA-168		MELIN
WAMTE JOHNSON	RUSSELL	DAVID	P	88-NA-291		CROWLEY
	TELIONIS	DEMETRI	T	88-NA-132		BOYCE
	WATSON	LAYNE	G	88-NA-134		WU
	CALDWELL	J.	V	88-NA-229		MELIN
WASHINGTON STATE UNIVERSITY	DE LA CRUZ	RODOLFO	V	88-NA-248		CROWLEY
	DELA CRUZ	RODOLFO	C	88-NA-072		MELIN
	MIRSCH	I		88-NA-165	A	CROWLEY
	SINGH	WAYNE		88-NA-466		CROWLEY
WASHINGTON UNIVERSITY	HAYTON	WILLIAM	L	88-NA-191	D	NACHMAN
	SABERI	ALI	I	88-NA-334	A	NACHMAN
	BYRNES	CHRISTOPHER		88-NA-104		WU
	KATZ	Z. NORMAN	A	88-NA-306	A	WITT
WAVE-PRO	KRIEGSMAN	G.		88-NE-047		NACHMAN
	NELSON	IVAN		88-NE-435		PRINCE
	ZHANG	CUN-QUAN	L	88-NA-194	A	TISHKOFF
	MESSHAM	R.		88-NA-266		NACHMAN
WEST VIRGINIA UNIVERSITY	ELCRAT	ALAN	C	88-NE-197		MALLOY
	WILCOXON	W.		88-NE-204		NACHMAN
	OLIVER	STUART	M	88-NE-189		WEINSTOCK
	BRIDGES	THOMAS	J	88-NA-240	A	WU
WESTINGHOUSE ELECTRIC CORPORATION	RAP-MOMAN	L		88-NE-151	A	WEINSTOCK
	MILLER	DAVID	F	88-NA-421	A	WAKSMAN
	BOYCE	JAMES	B	88-NL-167		TAMNEY
	YU	Y				
WILCOXON RESEARCH	PROBER	DANIEL	E			
	SCHANK	ROGER	C			
	MIRSCH	JOY				
WOODSIDE GROUP, INC.						
WRIGHT STATE UNIVERSITY						
XEROX RESEARCH CENTER						
Y. Y. YU ASSOCIATES						
YALE UNIVERSITY						
YALE UNIVERSITY SCHOOL OF MEDICINE						

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TITLE
TITLE (CONT.)
INSTITUTIONTYPE/MONTHS
RECEIVED
AMOUNTSTATUS
PROGRAM MANAGER
PROPOSAL #INITIATE
START DATE
TOT AMT

DONNA'S TEST PROPOSAL

N 15/04/88
90
BALL
88-NA-218

UNIV OF MARYLAND

(SBIR) DEVELOP ELECTROMAGNETIC POWER AMPLIFICATION DEVICE (EMPAD)
WITH PROPULSION APPLICATIONS
GENESIS COMPUTER PRODUCTS INCN 04
15/01/88
94,977,250
BIRKAN
88-NA-082

WALTER

KELLY

(SBIR) AN EXPERIMENTAL INVESTIGATION OF COMBUSTION INSTABILITY
PHENOMENA IN LIQUID-FUELED ROCKET ENGINES
AEROMETRICS INCN 06
20/01/88
949,895
BIRKAN
88-NA-111

WILLIAM

BACHALO

SUPPORT FOR THE COMBUSTION INSTITUTE

R 12
22/02/88
910,000
A
BIRKAN
88-NA-150

COMBUSTION INSTITUTE

PALMER

HOWARD

PROPULSION RESEARCH ON THE HYBRID PLUME PLASMA ROCKET

R 12
01/03/88
9182,000
A
BIRKAN
88-NA-161

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CHANG-DIAZ

F

STRUCTURE/PROPERTY/REACTIVITY RELATIONSHIPS AMONG NITRAMINES AND
OTHER EMERGETIC MATERIALS
UNIV OF DELAWARER 12
04/03/88
999,999
A
BIRKAN
88-NA-171

THOMAS

BRILL

SBIR THERMALLY INDUCED MOLECULAR IMPULSION ELECTRIC GENERATOR

N 06
09/03/88
9101,575
BIRKAN
88-NA-180

LOCH ENTERPRISES

LOCHMILLER

ALAN

SBIR SYNTHESIS OF STABLE HIGH-ENERGY ROCKET PROPELLANTS

N 06
09/03/88
950,000
BIRKAN
88-NA-183

TEXAS EXPLOSIVES CO., INC.

KEEFE

DAVID

BASIC PROCESSES OF PLASMA PROPULSION

R 24
22/03/88
9172,397
A
BIRKAN
88-NA-207

UNIV OF STUTTGART

SCHRADE

HERBERT

984,373
01/08/88
9172,397

TITLE (CONT.) INSTITUTION	INVESTIGATOR	BRANCH	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FLAME CHEMISTRY OF SOLID PROPELLANT COMBUSTION UNIV OF COLORADO		MELVYN	R 12 25/03/88 890,576	A BIRKAN 88-NA-210	890,576 30/09/88 890,576
COMBUSTION OF HYDROGEN AND HYDROCARBONS IN FLOURINE EMORY UNIVERSITY	KAUFMAN	MYRON	R 12 18/04/88 854,955	A BIRKAN 88-NA-219	854,955 01/08/88 854,955
EFFECTS OF TURBULENCE ON STATIONARY PROCESSES IN C-SYSTEMS UNIV OF ILLINOIS	BEDDINI	ROBERT	R 12 26/04/88 879,966	A BIRKAN 88-NA-220	879,966 01/09/88 879,966
TURBULENT DIFFUSION PLANE ADJACENT TO A SOLID FUEL CASE WESTERN RESERVE UNIVERSITY	T' IEN	JAMES	R 12 10/05/88 850,000	A BIRKAN 88-NA-237	850,000 01/09/88 850,000
SOLID ROCKET COMBUSTION PHENOMENA UNIV OF COLORADO	KASSOV	DAVID	N 36 23/05/88 8352,445	A BIRKAN 88-NA-244	8100,000 30/09/88 8352,445
AN EXPERIMENTAL INVESTIGATION OF THE LEADING EDGE OF DIFF. FLAMES GEORGIA TECH RESEARCH CORPORATION	PRICE	EDWARD	N 36 26/05/88 8337,923	BIRKAN 88-NA-250	
CRAY COMPUTER SUPPORT AIR FORCE WEAPONS LAB	HARMESON	TIM	N 06 27/05/88 8350	A BIRKAN 88-NA-251	8350 20/03/88 8350
(SBR) BIMODULAR AND CROSS-ANISOTROPIC STRESS ANALYSIS OF SOILS RESOURCE INTERNATIONAL INC.	EL-LAITHY	AMMED	N 06 04/02/88 847,250	BOYCE 88-NA-131	
MEASURING IN SITU ROCK STRESSES VISTA RESEARCH CORPORATION	DE LA CRUZ	RODOLFO	N 06 04/02/88 950,000	BOYCE 88-NA-132	
(SBR) TENSILE STRENGTH IN THE HYDRAULIC FRACTURE FIELD TEST FOR DETERMINING IN SITU STRESSES RESPEC INC	RATIGAN	JOE	N 06 03/03/88 849,244	BOYCE 88-NA-169	

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CENTRIFUGE MODELLING OF BLAST-INDUCED LIQUEFACTION KTECH CORPORATION	GAPFNEY EDWARD	N 06 03/03/88 849,894	BOYCE 88-NA-170	
FABRIC-STRESS-STRAIN RELATIONSHIP FOR SOILS BY NEUTRON DIFFRACTION STATE UNIVERSITY OF NEW YORK	BUDHU MUNIRAM	N 24 28/04/88 9181,474	BOYCE 88-NA-221	
CONE PENETRATION IN COMESSIONLESS SOILS UNIV OF KENTUCKY	MARDIN BOBBY	N 25 07/06/88 8177,980	BOYCE 88-NA-263	
INTERPRETATION OF IN SITU TESTING OF COHESIVE SOILS USING RATIONAL METHODS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LADD CHARLES	N 36 07/06/88 9506,118	BOYCE 88-NA-264	
CONSTITUTIVE MODELLING FOR GRANULAR MATERIAL UNDER FINITE STRAINS WITH PARTICLE SLIDINGS AND FABRIC CHANGES UNIV OF MASSACHUSETTS	CHANG CHING	N 24 16/06/88 9162,920	BOYCE 88-NA-272	
SOIL FABRIC, ANISOTROPIES AND THEIR INFLUENCE ON CONSTITUTIVE BEHAVIOR OF SILT ILLINOIS INSTITUTE OF TECHNOLOGY	BUDIMAN JEFFRY	N 24 20/06/88 9208,480	BOYCE 88-NA-274	
DYNAMIC RESPONSE OF MULTIPHASE OF POROUS MEDIA APPLIED RESEARCH ASSOCIATES INC	BLOUIN SCOTT	N 36 22/06/88 9401,214	BOYCE 88-NA-275	
ASSESSMENT OF REPAIR OF COMPOSITES TEXAS A AND M UNIVERSITY	OCHOA O	N 48 05/01/88 9553,211	MARITOS 88-NA-076	
(SBR) DIAMOND THIN FILM/METAL MATRIX COMPOSITES FOR ENHANCED STRUCTURAL PERFORMANCE CRYSTALLUME	RAVI K	N 06 21/01/88 955,000	MARITOS 88-NA-116	

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(SBR) DEVELOPMENT OF DAMAGE TOLERANT CONCEPTS FOR ADVANCED COMPOSITE STRUCTURES MISSION RESEARCH CORP	EISLER	N 06 21/01/88 850,625	HARITOS 88-NA-121	
(SBR) DEVELOPMENT OF AN ISOTROPIC HIGH-SYMMETRY SOLID (IMSS) INTELLIGENT SYSTEMS INTEGRATION INC.	ROSS	N 06 21/01/88 867,875	HARITOS 88-NA-122	
(SBR) MIXED MODE DELAMINATION FRACTURE MECHANISMS IN LAMINATED COMPOSITES MATERIALS SCIENCES CORPORATION	CHATTERJEE	N 06 21/01/88 850,000	HARITOS 88-NA-123	
A NEW MODEL FOR MATRIX FATIGUE DAMAGE ACCUMULATION IN COMPOSITE LAMINATES BAYTELLE PACIFIC NORTHWEST LABORATORIES	WILLIFORD	N 04 17/02/88 812,000	HARITOS 88-NA-145	
CONSTITUTIVE RESPONSE PREDICTIONS ON THE BASIS OF A COUPLED MATERIAL SPACETIME MODEL UNIV OF DELAWARE	DOLGOPOLSKY	N 36 17/02/88 8236,526	HARITOS 88-NA-146	
SBR PERMANENT DEFORMATION IN METAL-MATRIX COMPOSITE STRUCTURES ADVANCED COMPOSITE ENGINEERING, INC.	SUN	N 06 02/03/88 849,800	HARITOS 88-NA-162	
(SBR) DEVELOPMENT OF A NEW BERYLLIUM/GRAPHITE-EPOXY SANDWICH COMPOSITE ADVANCED COMPOSITE ENGINEERING, INC.	SUN	N 6 02/03/88 849,200	HARITOS 88-NA-163	
SBR NONLINEAR RESPONSE OF CARBON-CARBON PANELS IN HYPERSONIC ENVIRONMENT SIGMA TECHNOLOGIES	BOFILIOS	N 06 09/03/88 870,354	HARITOS 88-NA-179	
SBR FREE EDGE STRESSES FOR COMPOSITE LAMINATES UNDER RAPID THERMAL/MOISTURE TRANSIENTS STRUCTURAL INTEGRITY ASSOCIATES, INC.	KUD	N 06 09/03/88 848,204	HARITOS 88-NA-184	
SBR FUEL ATOMIZATION FOR PROPULSION SYSTEMS METAMATIX INC.	MINCH	N 06 09/03/88 848,251	HARITOS 88-NA-185	

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SBIR MACRO-MACROMECHANICS MODEL FOR THE STRENGTH AND INTEGRITY OF LAMINATED CERAMIC MATRIX COMPOSITE APPLIED ANALYSIS, INC	TANG	N 06 09/03/88 849,880	HARITOS 88-NA-186	
SBIR DAMAGE GROWTH PREDICTION AND ASSESSMENT IN COMPOSITES USING SYSTEM IDENTIFICATION APPLIED ENGINEERING RESEARCH, INC.	BEDEMI	N 06 09/03/88 848,500	HARITOS 88-NA-187	
SBIR A NOVEL FINITE MODELLING TECHNIQUE FOR MULTI-LAYERED COMPOSITES APTECH ENGINEERING SERVICES, INC.	CIPOLLA	N 06 10/03/88 849,933	HARITOS 88-NA-189	
SBIR DEVELOPMENT OF ADVANCED CONSTITUTIVE RELATIONSHIPS FOR COATED CARBON-CARBON COMPOSITE MATERIALS PDA ENGINEERING	MAK	N 06 11/03/88 849,982	HARITOS 88-NA-195	
3D ANALYSIS AND VERIFICATION OF FRACTURE GROWTH MECHANISMS IN FIBER-REINFORCED CERAMIC COMPOSITES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CLEARY	N 36 15/03/88 8345,159	A HARITOS 88-NA-198	8113,261 01/09/88 8346,785
COMPOSITE MATERIAL INTERFACES: ANALYTICAL AND EXPERIMENTAL STUDIES UNIV OF PENNSYLVANIA	MASHIM	N 24 28/04/88 8440,806	HARITOS 88-NA-222	
MICROMECHANICS OF INTERFACE IN HIGH-TEMPERATURE COMPOSITES NORTHWESTERN UNIVERSITY	MURA	N 36 28/04/88 8445,246	HARITOS 88-NA-224	
A NEW MODEL FOR MATRIX FATIGUE DAMAGE ACCUMULATION IN COMPOSITE LAMINATES BATTELLE PACIFIC NORTHWEST LABORATORIES	SOURS	N 03 28/04/88 812,000	HARITOS 88-NA-225	
DETERMINATION OF FATIGUE AND FRACTURE MECHANISMS IN ARALL USING ACOUSTIC EMISSION UNIV OF MICHIGAN	COMMINGU	N 24 28/04/88 8229,893	HARITOS 88-NA-230	

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DAMAGE MECHANICS OF COMPOSITE MATERIALS: CONSTITUTIVE MODELING AND COMPUTATIONAL ALGORITHMS PRINCETON UNIVERSITY	JU	N 24 10/05/88 \$107,700	A HARITOS 88-NA-238	952,100 01/09/88 \$107,700
EIGENSENSITIVITY ANALYSIS OF COMPOSITE LAMINATES: EFFECT OF MICROSTRUCTURE HOWARD UNIVERSITY	REISS	N 24 14/06/88 \$199,878	A HARITOS 88-NA-268	98,326 01/09/88 \$199,878
DEVELOPMENT OF CAPABILITY FOR CHARACTERIZATION OF CERAMIC/CERAMIC COMPOSITES TUSKEGEE INSTITUTE	JEELANI	N 24 14/06/88 \$243,728	A HARITOS 88-NA-269	910,200 01/09/88 \$243,728
MODELING MATERIAL BEHAVIOR ON THE BASIS OF FUNDAMENTAL PHYSICAL PRINCIPLES UNITED TECHNOLOGIES RESEARCH CENTER	CASSENTI	N 36 20/04/88 \$373,208	HARITOS 88-NA-273	
FRACTURE & CRACK GROWTH IN CERAMIC MATRIX COMPOSITES: MODEL DEVELOPMENT AND EXPERIMENTAL CHARACTERIZATION UNIV OF MISSOURI	OMARANI	N 24 23/06/88 \$139,393	HARITOS 88-NA-276	
(SBR) GENERAL TIME-DOMAIN UNSTEADY AERODYNAMICS OF WINGS WAYNE JOHNSON	JOHNSON	N 06 05/01/88 \$41,493	MELIN 88-NA-072	
THE EFFECT OF DISTURBANCE FREQUENCY CONTENT ON COMPRESSOR STALL PROPAGATION SCIENTIFIC RESEARCH ASSOCIATES INC	LIU	N 06 05/01/88 \$90,000	MELIN 88-NA-074	
(SBR) COMPUTATION OF UNSTEADY 3D VISCOUS FLOWS AND DYNAMIC STALL OF PITCHING BOOIES ECODYNAMICS RESEARCH ASSOCIATION INC	ROACHE	N 06 15/01/88 \$56,900	MELIN 88-NA-097	
(SBR) INVESTIGATIONS OF STRONG VORTEX INTERACTION AND WEIS-FOGH LIFT MECHANISM WITH APPLICATION TO TURBOMACHINES VIGYAN RESEARCH ASSOCIATES INC	SUNDARAM	N 06 15/01/88 \$51,282	MELIN 88-NA-098	
(SBR) EXPLORATORY STUDY OF A TIP VORTEX MANAGEMENT CONCEPT VIGYAN RESEARCH ASSOCIATES INC	RAD	N 06 15/01/88 \$53,786	MELIN 88-NA-099	

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(SRI) EXPERIMENTAL EVALUATION OF VORTEX BREAKDOWN CHARACTERISTICS OF HIGHLY MANEUVERABLE AIRCRAFT CONFIGURATIONS VIGYAN RESEARCH ASSOCIATES INC	0	N 06 15/01/80 851,404	MELIN 88-NA-100	
(SRI) VISCOUS/POTENTIAL COUPLING FOR OFF-DESIGN CALCULATION OF INLET FLOWS ANALYTICAL METHODS INC	NATHAN JAMES	N 06 15/01/80 849,994	MELIN 88-NA-101	
CONTROL OF UNSTEADY AERODYNAMIC FORCES UNIV OF SOUTHERN CALIFORNIA	MO CHIM-MING	N 24 19/01/80 8223,200	A MELIN 88-NA-102	858,067 01/85/88 8223,201
(SRI) ROTOR-STATOR INTERACTIVE NAVIER-STOKES FLOW CODES. DEVELOPMENT FOR SIMULATION OF TIP CLEARANCE LOSSES. EXOTECH INC.	MOYLE IAN	N 06 19/01/80 849,862	MELIN 88-NA-105	
(SRI) EVALUATION OF BLADE PASSAGE VORTEX CORE MEASUREMENTS AS STALL PRECURSIVE AND STALL MARGIN INDICATIVE SIGNALS EXOTECH INC.	MOYLE IAN	N 06 19/01/80 849,862	MELIN 88-NA-106	
A NUMERICAL INVESTIGATION OF DYNAMIC STALL USING A DISCRETE VORTEX METHOD PHYSICAL RESEARCH INC.	CAYLOR MARK	N 06 04/02/80 849,935	MELIN 88-NA-133	
THE TRANSIENT DEVELOPMENT OF VORTICES OVER A DELTA WING VIRGINIA POLYTECHNIC INST & STATE UNIV	TELIONIS DENETRI	N 24 03/03/80 8129,474	MELIN 88-NA-168	
(SRI) PHASE II) DEVELOPMENT OF A UNIQUE NONINTRUSIVE TECHNIQUE FOR THE MEASUREMENT OF VORTEX FLOWS EIDETICS INTERNATIONAL INC.	MALCOLM GERALD	N 24 09/03/80 8585,837	MELIN 88-NA-174	
DYNAMIC SEPARATION: SEARCH FOR THE CAUSE OF DYNAMIC STALL AND SEARCH FOR ITS CONTROL UNIV OF COLORADO	PREYMUETH PETER	N 18 16/03/80 8105,449	A MELIN 88-NA-200	839,233 01/08/88 8105,469

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UNSTEADY SEPARATED FLOWS: PHYSICAL MECHANISMS AND CONTROLS UNIV OF COLORADO	LUTTIGES MARVIN	N 23 16/03/88 9268,824	A MELIN 88-NA-201	892,500 01/08/88 8268,824
THEORETICAL STUDIES OF THE KINEMATICS, DYNAMICS, STABILITY AND CONTROL OF UNSTEADY/VORTICAL FLOWS UNIV OF COLORADO	CHOW CHUEN-YEN	N 24 21/03/88 829,000	A MELIN 88-NA-206	833,500 01/08/88 8216,760
(SOIR PHASE II) HOT-BLOCK ANEMOMETRY SCIENTIFIC RESEARCH ASSOCIATES INC	THOMPSON ORIAN	N 06 28/03/88 953,320	MELIN 88-NA-211	
TURBULENT SPOT GENERATION AND GROWTH RATES IN A TRANSONIC BOUNDARY LAYER SYRACUSE UNIVERSITY	LAGRAFF JOHN	N 36 05/04/88 9258,164	MELIN 88-NA-214	
NIXON'S SUPERMANUEVER AERODYNAMICS AND MULTIPLE SOLUTIONS SERIES - COMPUTER SUPPORT NIELSEN ENGINEERING AND RESEARCH CO	NIXON DAVE	N 20 07/04/88 934,000	A MELIN 88-NA-216	934,000 15/07/88 934,000
RADIAL MIXING IN AXIAL COMPRESSORS INTRODUCTION IN AND INTERACTION EXISTING THROUGH-FLOW CODES VRIJE UNIVERSITEIT	MIRSCH I	N 12 28/04/88 853,500	MELIN 88-NA-229	
THERMODYNAMICAL FORMULATIONS IN TURBULENCE MODELING AND INTERNAL FLOWS CLARSON UNIVERSITY	ANNAZI GODDARD	N 36 06/05/88 8214,296	MELIN 88-NA-234	
A NEW ADAPTIVE NUMERICAL APPROACH FOR DETERMINING THE EVOLUTION OF VORTICITY FIELDS IN HIGH REYNOLDS NUMBER VISCOUS FLOW INTELLIGENT SYSTEMS INTEGRATION INC.	LU ZMI	N 12 09/05/88 898,829	MELIN 88-NA-235	
(AFRAPT) MASSACHUSETTS INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	GREITZER E	R 12 12/05/88 8258,720	A MELIN 88-NA-239	8258,720 01/09/88 8258,720
INVESTIGATIONS OF SURFACE ROUGHNESS EFFECTS ON TURBULENT FLOW AND HEAT TRANSFER MISSISSIPPI STATE UNIVERSITY	COLEMAN HUGH	N 36 03/06/88 9465,663	MELIN 88-NA-255	

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CONTROL OF FLOW STRUCTURE FROM DELTA WINGS IN UNSTEADY MOTION LEHIGH UNIVERSITY	ROCKWELL DONALD	R 24 03/06/88 8260,000	MELIN 88-NA-256	88.463 01/09/88 8327,010
UNSTEADY FLOW PAST SYMMETRIC AIRFOILS AT CONSTANT PITCH RATES FLORIDA A&M UNIVERSITY	LORENZO LUIZ	N 36 06/06/88 8327,020	A MELIN 88-NA-262	
MIXING AND STRUCTURE OF SWIRLING JETS UNIV OF WASHINGTON	GESSNER FRED	N 12 16/06/88 8144,558	MELIN 88-NA-270	
(SBIR) A SEPARATION SENSOR BASED ON A NEWLY DISCOVERED ANALYTICAL SERVICES & MATERIALS INC.	MANGALAM S	N 06 15/01/88 850,000	MCMICHAEL 88-NA-077	
(SBIR) QUANTIFICATION OF TURBULENCE FOR HYPERSONIC FLOW AROUND AEROSPACE SYSTEMS ENGINEERING ANALYSIS, INC.	TATUM FRANK	N 06 15/01/88 851,707	MCMICHAEL 88-NA-078	
(SBIR) ANALYTICAL FLUID DYNAMICS GENERAL ANALYTICS CORPORATION	ADOMIAN G	N 07 15/01/88 850,000	MCMICHAEL 88-NA-081	
(SBIR) SHOCK-TURBULENCE INTERACTIONS IN ELEMENTARY GEOMETRIES PEUA CORPORATION	HONG S	N 06 15/01/88 849,704	MCMICHAEL 88-NA-083	
(SBIR) TURBULENCE MODELING OF COMPRESSIBLE BOUNDARY LAYERS PEUA CORPORATION	BARDINA JORGE	N 06 15/01/88 849,887	MCMICHAEL 88-NA-084	
(SBIR) MODELING OF SHEAR IN TURBULENT ROTATING FLOWS PEUA CORPORATION	BARDINA JORGE	N 06 15/01/88 849,887	MCMICHAEL 88-NA-085	

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(SBR) A NEW DESIGN FOR A THERMAL HOMOGENEIZER IN A PULSED CLOSED-CYCLE HIGH POWER EXCIMER LASER VIGYAN RESEARCH ASSOCIATES INC	SUNDARAM	N 06 15/01/88 \$50,214	MCMICHAEL 88-NA-087	
(SBR) DESIGN OF ADVANCED TRANSONIC LOW DRAG NATURAL LAMINAR FLOW FUSELAGE SHAPES VIGYAN RESEARCH ASSOCIATES INC	DOOBELE	N 06 15/01/88 \$55,089	MCMICHAEL 88-NA-088	
(SBR) IMPROVED FLOW UNDERSTANDING: DESIGN OF A HIERARCHICAL PARALLEL-PROCESSING CFD CODE COMPUTATIONAL MECHANICS CONSULTANTS INC	MANHARDT	N 06 15/01/88 \$50,000	MCMICHAEL 88-NA-089	
(SBR) A SEPARATION SENSOR BASED ON A NEWLY DISCOVERED PHASE REVERSAL PHENOMENON ANALYTICAL SERVICES & MATERIALS INC.	MANGALAM	N 06 15/01/88 \$50,000	MCMICHAEL 88-NA-090	
(SBR) STREAMLINE CURVATURE EFFECTS ON A HYPERSONIC/SUPERSONIC SHEAR/MIXING LAYER FLOW INDUSTRIES INC	JOU	N 06 15/01/88 \$49,950	MCMICHAEL 88-NA-091	
(SBR) EXPLOITATION OF MULTIPLE SOLUTIONS OF THE NAVIER-STOKES EQUATIONS TO ACHIEVE RADICALLY IMPROVED FLIGHT NIELSEN ENGINEERING AND RESEARCH CO	NIXON	N 06 15/01/88 \$54,021	A MCMICHAEL 88-NA-092	\$54,021 01/08/88 \$54,021
(SBR) STABILITY AND TURBULENCE MECHANISMS IN VORTEX FLOWS NIELSEN ENGINEERING AND RESEARCH CO	CHILDS	N 06 15/01/88 \$59,893	MCMICHAEL 88-NA-093	
(SBR) A NEW METHODOLOGY FOR ADAPTIVE GRID GENERATION CREARE INC. RESEARCH & DEVELOPMENT INC	OVINSKY	N 06 15/01/88 \$49,971	MCMICHAEL 88-NA-094	
(SBR) BLUNT FOREBODY DRAG REDUCTION BY FORCED SEPARATION VIGYAN RESEARCH ASSOCIATES INC	RAO	N 06 15/01/88 \$49,651	MCMICHAEL 88-NA-095	
(SBR) PARALLEL PROCESSING ALGORITHMS FOR FLUID MECHANICS FORMAL SYSTEMS DESIGN & DEVELOPMENT INC	STUCKWISCH	N 06 15/01/88 \$50,000	MCMICHAEL 88-NA-096	

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TOT AMT(SBIR) QUANTITATIVE DESCRIPTION OF THREE-DIMENSIONAL FLOW FIELDS
USING FLOW VISUALIZATION AND AUTOMATED IMAGE PROCESSING
NORTHWEST RESEARCH ASSOCIATES, INC.

ROBERT

N 06
19/01/88
849,952MCMICHAEL
88-NA-107

(SBIR) ADVANCED ALGORITHM FOR 3D VISCOUS AND SEPARATED FLOW

INTELLIGENT SYSTEMS INTEGRATION INC.

Z

N 06
19/01/88
869,833MCMICHAEL
88-NA-108(SBIR) ADVANCED SIGNAL PROCESSING FOR HIGH SPEED FLOWS USING
IOTUCAR FREQUENCY DOMAIN TECHNIQUES
AEROMETRICS INC

WILLIAM

N 06
19/01/88
849,979MCMICHAEL
88-NA-109

ANALYSIS OF HYPERSONIC FLOWS

LOCKHEED CALIFORNIA COMPANY

LONG

LYLE

N 12
02/02/88
8355,221MCMICHAEL
88-NA-124

UNSTEADY BEHAVIORS OF TURBULENT SHEAR FLOWS

UNIV OF SOUTHERN CALIFORNIA

REDKOPP

LARRY

R 24
02/02/88
8777,0508339,621
15/05/88
8777,050MCMICHAEL
88-NA-125NONLINEAR DYNAMICS AND CHAOTIC MOTIONS OF FLUID-STRUCTURE
INTERACTION SYSTEMS
MCCELL UNIVERSITY

MICHAEL

N 36
04/02/88
8257,227MCMICHAEL
88-NA-130(SBIR) ENHANCED COMPUTATIONAL/MODELING OF VISCOUS AND SEPARATED
FLOWS FOR COMPLEX FIELDS
COMPTON CORP

SIM

GEORGE

N 06
04/02/88
849,997MCMICHAEL
88-NA-136

(SBIR) RESEARCH INSTRUMENTATION: GAS/AIR FLOW MEASUREMENT DEVICE

ARCHITECTURAL ENERGY CORPORATION

WORTMAN

DAVID

N 06
04/02/88
837,227MCMICHAEL
88-NA-137

(SBIR) MINIATURE AERODYNAMIC FLOW ANGLE SENSOR

ENGINEERING DEVELOPMENT LAB. INC.

CAMBELL

RICHARD

N 06
04/02/88
849,270MCMICHAEL
88-NA-138

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A STUDY OF VORTICES IN COMPRESSIBLE FLOW UNIVERSITY OF MICHIGAN	POWELL KENNETH	N 24 17/02/88 9121.735	MCMICHAEL 88-NA-143	
FLOW AROUND A FLEXIBLY SUPPORTED CYLINDER UNIV OF NOTRE DAME	GAD-EL-HAK MOHAMED	N 36 22/02/88 9371.302	MCMICHAEL 89-NA-149	
(SBIR) THREE DIMENSIONAL ADAPTIVE GRID GENERATION FOR ARBITRARY GEOMETRIES SYSTEMS DYNAMICS INCORP.	REED CHRISTOPHER	N 6 22/02/88 949.862	MCMICHAEL 88-NA-151	
(SBIR) FLUID MECHANICS: INVISCID-VISCOUS ANALYSIS BY FINITE ELEMENT METHOD FOR AIRFOILS WITH ICING MEGA RESEARCH INC.	WU ERM-RONG	N 6 22/02/88 949.988	MCMICHAEL 88-NA-152	
(SBIR) MODULAR PARALLEL PARTIAL DIFFERENTIAL EQUATION SOLVER FOR FLUID MECHANICS PAROSOFT CORPORATION	KOLAWA ADAM	N 5 22/02/88 949.861	MCMICHAEL 88-NA-153	
(SBIR) SIMULANT GAS AIR CHEMISTRY EFFECTS TEST TECHNIQUE FLUID PHYSICS IND.	TRACI RICHARD	N 6 22/02/88 854.234	MCMICHAEL 88-NA-154	
(SBIR) INNOVATIVE NUMERICAL METHODS FOR COMPUTATIONAL FLUID DYNAMICS ADVANCED TECHNOLOGY ENGINEERING CONS.	VENKATESAN MAHADEVA	N 6 22/02/88 846.710	MCMICHAEL 88-NA-155	
(SBIR) FLUID MECHANICS AEROCOM INC	HOOKER STEPHEN	N 5 23/02/88 946.766	MCMICHAEL 88-NA-157	
EXPERIMENTAL INVESTIGATION OF A SPANWISE FORCED MIXING LAYER UNIV OF ARIZONA	GLEZER ARI	R 24 26/02/88 9165.802	A MCMICHAEL 88-NA-158	879.997 01/08/88 9165.802
OPTICAL PROPERTIES OF PLANE SHEAR LAYERS UNDER PERIODIC DISTURBANCES UNIV OF WASHINGTON	CHRISTIANSEN WALTER	N 18 16/03/88 9133.721	A MCMICHAEL 88-NA-202	966.368 01/07/88 9133.721

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THREE-DIMENSIONAL VORTEX INTERACTIONS IN TURBULENT BOUNDARY LAYERS LEHIGH UNIVERSITY	SMITH JR CHARLES	R 24 17/03/88 9542,692	MCMICHAEL 88-NA-203	
PHYSICALLY BASED NUMERICAL DISSIPATION FOR EULER AND NAVIER-STOKES EQUATIONS PENNSYLVANIA STATE UNIVERSITY	DULIKRAVICH GEORGE	N 24 23/03/88 8120,000	MCMICHAEL 88-NA-208	
NUMERICAL SIMULATION OF THREE-DIMENSIONAL SPATIALLY-EVOLVING BOUNDARY LAYER TRANSITION AND TRANSITION CONTROL UNIV OF COLORADO	SEDAT BIRINGEN	N 24 28/04/88 8174,360	MCMICHAEL 88-NA-220	
ORIGIN OF THREE DIMENSIONAL STRUCTURES IN SHEAR FLOW THROUGH EXTERNAL FORCING UNIV OF CALIFORNIA	MORTEZA GHARIB	R 12 24/05/88 824,992	A MCMICHAEL 88-NA-247	824,992 15/09/88 824,992
TURBULENCE STRUCTURE ASSOCIATED WITH INTERCOMPONENT AND INTERSCALE ENERGY TRANSFER, AND MODIFICATION BY FORCING PENNSYLVANIA STATE UNIVERSITY	JAMES BRASSEUR	N 18 26/05/88 843,030	A MCMICHAEL 88-NA-249	843,030 15/09/88 843,030
STOCHASTIC ESTIMATION OF COHERENT STRUCTURES AND THEIR DYNAMICS IN TRANSITION AND TURBULENT LAYERS CMIO STATE UNIV RESEARCH FOUNDATION	FAMM GUEZENNEC	N 12 02/06/88 854,658	MCMICHAEL 88-NA-253	
SENSITIVITY OF TURBULENT BOUNDARY LAYER PRODUCTION MECHANISMS TO TURBULENCE CONTROL MICHIGAN STATE UNIVERSITY	ROBERT FALCO	R 24 03/06/88 8319,991	MCMICHAEL 88-NA-254	
DECIMATION AND TURBULENCE COLLEGE OF WILLIAM AND MARY	GEORGE VANALA	N 24 16/06/88 8226,918	MCMICHAEL 88-NA-271	
(SBR) AEROTHERMAL LOADS FOR HYPERSONIC VEHICLES SCIENTIFIC RESEARCH ASSOCIATES INC	SHAMROTH STEPHEN	N 06 05/01/88 850,000	HACHMAN 88-NA 075	

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(SBIR) IMPROVE STRUCTURAL EFFICIENCY AND DURABILITY CENTER FOR REMOTE SENSING	GANGULY SUMAN	N 04 15/01/88 \$48,929	NACHMAN 88-NA-080	
(SBIR) RESEARCH ON INSTRUMENTATION USING MULTIPLE ZERO CROSSINGS COVDA INC.	STUART JOHN	N 06 20/01/88 \$50,000	NACHMAN 88-NA-110	
(SBIR) COUPLED STRUCTURE-FLUID INTERACTION APPROACH TO ROCKET MISSILE FATIGUE AND INSTABILITY PROBLEMS SCIENTIFIC RESEARCH ASSOCIATES INC	CHEN S	N 06 21/01/88 \$50,000	NACHMAN 88-NA-113	
(SBIR) KNOWLEDGE-BASED NONLINEAR ANALYSIS AND DAMAGE PREDICTIONS FOR AEROSPACE STRUCTURES STRUCTURAL ANALYSIS TECHNOLOGY INC	KAMIL MASAN	N 06 21/01/88 \$49,866	NACHMAN 88-NA-114	
(SBIR) INNOVATIVE STORAGE METHODS AND SOLUTION-ADAPTIVE GRIDS FOR FINITE ELEMENT METHODS MAINSTREAM ENGINEERING CORPORATION	BUCKMAN JAY	N 06 09/02/88 \$4,930,870	NACHMAN 88-NA-140	
(SBIR) STRAIN-RATE SENSOR DEVELOPMENT IAP RESEARCH, INC.	BARBER JOHN	N 6 02/03/88 \$49,426	NACHMAN 88-NA-164	
(SBIR) RESEARCH INSTRUMENTATION FOR HIGH RESOLUTION RESOLUTION SURFACE SHAPE & DEFLECTION MEASUREMENT ATLANTIC APPLIED RESEARCH	KERN FRED	N 6 02/03/88 \$49,982	NACHMAN 88-NA-165	
SBIR DEVELOPMENT OF A LIGHTWEIGHT TACTICAL TOWER PANTOZZI COMPANY, INC.	PANTOZZI MARK	N 06 09/03/88 \$155,728	NACHMAN 88-NA-177	
SBIR A STUDY OF NONCLASSICAL FLOW-INDUCED RESPONSES OF A LIFTING SURFACE DUE TO LOCALIZED DAMAGE OR DISTURBANCES INTELLIGENT SIGNAL PROCESSING	WONG JAE	N 06 09/03/88 \$49,966	NACHMAN 88-NA-178	
SBIR TRANSDUCER INDUCED ANOMALIES ON NONLINEAR COMPUTATIONAL ANALYSIS AND MODELING TECHNIQUES INTELLIGENT SIGNAL PROCESSING	WONG JAE	N 06 10/03/88 \$49,923	NACHMAN 88-NA-193	

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INVERSE DESIGN AND OPTIMIZATION OF AERODYNAMIC CONFIGURATIONS PENNSYLVANIA STATE UNIVERSITY	DULIKRAVICH GEORGE	N 24 15/03/88 \$197,705	D NACHMAN 88-NA-197	160,025 01/07/88 \$203,924
FINITE ELEMENT ANALYSIS OF COMPOSITE SHELLS RESEARCH PROSPECTUS AIR FORCE INSTITUTE OF TECHNOLOGY	PALAIDOTTO ANTHONY	N 38 19/03/88 \$203,924	A NACHMAN 88-NA-205	160,025 01/07/88 \$203,924
ACTIVE NONLINEAR FEEDBACK CONTROL FOR AEROSPACE SYSTEMS HARRIS CORPORATION	MYLAND D	N 36 26/05/88 \$446,214	NACHMAN 88-NA-248	
AFRAPT-TEXAS ACM UNIVERSITY-88 TEXAS A AND M RESEARCH FOUNDATION	VANCE J	R 12 27/05/88 \$83,740	A NACHMAN 88-NA-252	\$83,740 01/09/88 \$83,740
FUNCTIONAL SERIES EXPANSION FOR RANDOM RESPONSE CLARKSON UNIVERSITY	AMMADI GOODARZ	N 36 06/06/88 \$173,043	D NACHMAN 88-NA-258	
OPTIMUM AEROELASTIC CHARACTERISTICS FOR COMPOSITE SUPER- MANEUVERABLE AIRCRAFT POLYTECHNIC INSTITUTE OF NEW YORK	OYIBO GABRIEL	R 36 06/06/88 \$267,335	NACHMAN 88-NA-260	
DISTRIBUTED FINITE ELEMENT MODELING AND CONTROLS RESEARCH FOR LARGE SPACE STRUCTURES LAWRENCE LIVERMORE LAB (CALIF UNIV)	YOUNG K.	N 36 06/06/88 \$180,000	NACHMAN 88-NA-261	
TRANSFORM METHODS FOR PRECISION NONLINEAR WAVE MODELS OF FLEXIBLE SPACE STRUCTURES PHOTON RESEARCH ASSOCIATES INC	TURNER J.	N 24 28/06/88 \$324,980	NACHMAN 88-NA-278	
RESEARCH INTO TRAVELLING WAVE CONTROL IN FLEXIBLE STRUCTURES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	VON FLOTOW ANDREAS	R 12 28/06/88 \$125,003	NACHMAN 88-NA-279	

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ELECTROSTATIC SHAPE CONTROL OF A WIRE MESH PARABOLIC REFLECTOR UNIV OF ILLINOIS	BENTSMAN	J.	N 36 29/06/88 9315,467	NACHMAN 88-NA-280	
RELEGATION FOR DECENTRALIZED CONTROL OHIO STATE UNIV RESEARCH FOUNDATION	OZGUNER	UNIT	N 36 29/06/88 9179,366	NACHMAN 88-NA-292	
STRUCTURE AND CONTROL OF THREE-DIMENSIONAL SHOCK WAVE TURBULENT BOUNDARY LAYER INTERACTIONS PRINCETON UNIVERSITY	BOGDANOFF	SEYMOUR	N 24 24/06/88 9545,000	A SAKELL 88-NA-277	9265,000 01/10/88 9545,000
(SBR) ANTI-SOUND ACTIVE CONTROL OF COMBUSTION INSTABILITY IN RAMJET DUMP COMBUSTORS FLOW INDUSTRIES INC	MEMON	SURESH	N 06 05/01/88 956,214	TISHKOFF 88-NA-073	
(SBR) AN INSTRUMENT FOR THE SIMULTANEOUS MEASUREMENT OF VELOCITY TEMPERATURE AND DENSITY OF UNSEEDED AIR-FLOWS ANALATOM INC	LAUFER	GABRIEL	N 06 15/02/88 949,808	A TISHKOFF 88-NA-079	949,808 01/08/88 949,808
(SBR) IMPROVED PARABOLIZED NAVIER-STOKES (PNS) ALGORITHM FOR SUPERSONIC REACTING FLOWS VIGYAN RESEARCH ASSOCIATES INC	CHITSONBOON	TAMIT	N 06 15/01/88 949,206	TISHKOFF 88-NA-086	
(SBR) IMPROVED PARABOLIZED NAVIER-STOKES (PNS) ALGORITHM FOR SUPERSONIC REACTING FLOWS VIGYAN RESEARCH ASSOCIATES INC	CHITSONBOON	TAMIT	N 06 20/01/88 949,206	TISHKOFF 88-NA-112	
(SBR) MEASUREMENT OF THREE-DIMENSIONAL TEMPERATURE AND VELOCITY FIELDS USING HOLOGRAPHY SCIENTIFIC RESEARCH ASSOCIATES INC	TOLPADI	ANIL	N 06 21/01/88 955,807	TISHKOFF 88-NA-115	
(SBR) ADVANCED NON-INTRUSIVE DIAGNOSTICS FOR SPRAYS ADVANCED FUEL RESEARCH INC.	SOLOMON	PETER	N 06 21/01/88 968,401	TISHKOFF 88-NA-117	
(SBR) ADVANCED NON-INTRUSIVE DIAGNOSTICS FOR TURBULENT FLAMES ADVANCED FUEL RESEARCH INC.	SOLOMON	PETER	N 06 21/01/88 962,141	TISHKOFF 88-NA-118	

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(SBIR) A NON-INTRUSIVE OPTICAL TECHNIQUE FOR SIMULTANEOUS
MULTIPOINT TEMPERATURE MEASUREMENTS IN FLAMES (PC-080)
PHYSICAL SCIENCES INC
ALLEN

(SBIR) KINETIC MODELING OF SOOT FORMATION IN MULTICOMPONENT FUEL
COMBUSTION
ADVANCED FUEL RESEARCH INC.
SERIO

TURBULENT MIXING IN EXPONENTIAL TRANSVERSE JETS
UNIV OF WASHINGTON
BREIDENTHAL

A STUDY OF OBLIQUE DETONATIONS FOR SUPERSONIC COMBUSTION
UNIV OF CONNECTICUT
DABORA

DENSE-SPRAY STRUCTURE AND PHENOMENA
UNIV OF MICHIGAN
PAETH

SBIR KINETICS AND INHIBITION OF SOOT FORMATION
PHYSICAL SCIENCES INC
RAWLINS

SBIR FT-IR EMISSION AND TRANSMISSION TOMOGRAPHY FOR COMBUSTION
DIAGNOSTICS
ADVANCED FUEL RESEARCH INC.
SOLOMON

(SBIR) PROPULSION (LIQUID ATOMIZATION)
VERITAY TECHNOLOGY, INC.
TALLEY

SBIR RADIATIVE IGNITION AND FLAMEHOLDING FOR SUPERSONIC COMBUSTORS
PRINCETON SCIENTIFIC ENTERPRISE, INC.
BLAIR

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 06 21/01/88 849,980	TISHKOFF 88-NA-119	
N 06 21/01/88 872,718	TISHKOFF 88-NA-120	
R 24 03/02/88 863,997	A TISHKOFF 88-NA-127	863,897 01/08/88 8130,994
N 24 17/02/88 8196,370	TISHKOFF 88-NA-144	
R 12 17/02/88 8110,000	A TISHKOFF 88-NA-147	8110,000 15/07/88 8110,000
N 06 01/03/88 849,998	TISHKOFF 88-NA-159	
N 06 01/03/88 864,532	TISHKOFF 88-NA-160	
N 6 02/03/88 849,994	TISHKOFF 88-NA-166	
N 06 09/03/88 850,000	TISHKOFF 88-NA-175	

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SBIR DEMONSTRATION OF THE OBLIQUE DETONATION WAVE FOR HYPERSONIC PROPULSION ASTRON RESEARCH & ENGINEERING	NAKAMURA TAKASHI	N 06 09/03/88 877,715	A TISHKOFF 88-NA-176	877,715 01/08/88 877,715
SBIR CATALYTIC COMBUSTION FOR IMPROVED IGNITION AND FLAME STABILITY PRECISION COMBUSTION, INC.	PFEFFERLE WILLIAM	N 06 09/03/88 850,000	TISHKOFF 88-NA-181	
SBIR COLLOIDAL DYNAMICS SIMULATIONS OF HIGHLY VISCOUS CONCENTRATED FUEL SLURRIES (PE-106) METAMATIX INC.	WILEMSKI GERALD	N 06 09/03/88 849,991	TISHKOFF 88-NA-182	
SBIR HEAT FLUX GAGE DEVELOPMENT VATELL CORPORATION	LANGLEY LAWRENCE	N 06 10/03/88 848,607	TISHKOFF 88-NA-188	
SBIR FULLY AUTOMATIC CALIBRATION SYSTEM DOWNLAND-BACH CORPORATION	SELPFRIDGE SCOTT	N 06 10/03/88 891,200	TISHKOFF 88-NA-190	
SBIR DEVELOPMENT OF AN AUTOMATED VAPOR PRESSURE MEASURING INSTRUMENT ROCKY RESEARCH	LANGELIERS JAMES	N 06 10/03/88 850,000	TISHKOFF 88-NA-191	
SBIR INVESTIGATION OF THRUST AUGMENTATION METHODS WOODSIDE GROUP, INC.	OLIVER STUART	N 06 10/03/88 849,832	TISHKOFF 88-NA-194	
(SBIR) A NON-INVASIVE LAMINAR TO TURBULENT FLOW DETECTOR CONTINUUM DYNAMICS, INC.	BILAMIN ALAN	N 6 14/03/88 849,537	TISHKOFF 88-NA-196	
THE MODELING OF DROP-CONTAINING TURBULENT EDDIES JET PROPULSION LABORATORY	BELLAN JOSETTE	N 12 24/03/88 863,900	TISHKOFF 88-NA-209	
ADVANCED DIAGNOSTICS FOR REACTING FLOWS STANFORD UNIVERSITY	HANSON RONALD	R 24 04/04/88 8900,000	A TISHKOFF 88-NA-213	8441,696 01/10/88 8883,392

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INVESTIGATOR

IRVIN
GLASSMAN

IRVIN
GLASSMAN

ICAL PROPERTIES
CHARALAMPOPOULOS
TRYFON

SOURCES: A
EHLERT
THOMAS

SANTAVICCA

SANTAVICCA

FLEETER
SANFORD

GOULARD
ROBERT

GLASSMAN
IRVIN

EDWARD
MULLEN

SND

ILLIAMS
FORMAN

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N 36	A	
28/04/88	TISHKOFF	9179,900
9560,580	88-NA-226	01/10/88
		9560,580
N 36		
28/04/88	TISHKOFF	
9268,597	88-NA-227	
N 12	A	
10/05/88	TISHKOFF	931,004
931,004	88-NA-236	01/09/88
		931,004
R 12	A	
17/05/88	TISHKOFF	9155,540
9155,540	88-NA-241	19/08/88
		9155,540
R 12	A	
17/05/88	TISHKOFF	9146,434
9146,434	88-NA-242	19/08/88
		9146,434
M 04	A	
23/05/88	TISHKOFF	912,854
912,854	88-NA-243	01/06/88
		912,854
R 12	A	
24/05/88	TISHKOFF	984,600
984,600	88-NA-245	01/09/88
		984,600
N 12	A	
24/05/88	TISHKOFF	920,000
920,000	88-NA-246	01/06/88
		920,000
N 36	TISHKOFF	
06/06/88	88-NA-259	
3370,203		

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TOT AMTASYNCHRONOUS OPTICAL SAMPLING FOR LASER-BASED COMBUSTION
DIAGNOSTICS IN HIGH PRESSURE FLAMES
PURDUE RESEARCH FOUNDATION

GALEN

M 24
29/06/88
9295,448TISHKOFF
88-NA-281(SBR) TWO STEP DETAILED NUMERICAL STUDY OF NONLINEAR CONCRETE-
RELAR INTERACTION
WEIDLINGER ASSOCIATES

NELSON

M 06
19/01/88
860,017MU
88-NA-104STRUCTURAL OPTIMIZATION OF SANDWICH COMPOSITE SHELLS TO VARIOUS
LOADINGS
UNIV OF DELAWARE

VINSON

M 24
04/02/88
9137,462MU
88-NA-129(SBR) TRACKING AND LOCATING FRACTURES AWAY FROM BOREHOLE IN A
ROCK MASS
VISTA RESEARCH CORPORATION

DELA CRUZ

M 06
04/02/88
850,000MU
88-NA-134(SBR) A RATE-SENSITIVE CONTINUUM DAMAGE MODEL FOR GEOMATERIALS
BERKELEY APPLIED SCIENCE & ENGR.

PANAMANDEN

M 06
04/02/88
849,441MU
88-NA-135THE CONTINUING ACTIVITIES OF THE US NATIONAL COMMITTEE FOR ROCK
MECHANICS
DEPT OF THE INTERIOR

CHAMBERLAIN

M 07
22/02/88
822,500MU
88-NA-156922,500
01/03/88
922,500A STUDY OF FRACTURE PROCESSES IN CONCRETE USING LASER HOLOGRAPHY
NORTHWESTERN UNIVERSITY

SMAN

M 14
03/03/88
8114,835MU
88-NA-167914,600
01/08/88
8114,835

TETRAHEDRAL FRAMES FOR STRUCTURES AND COMPOSITES

DBA JAG INDUSTRIES

MOLT

M 06
07/03/88
850,000MU
88-NA-172(SBR) DEVELOPMENT OF A HIGH IMAGING-SPEED SCANNING ELECTRON
MICROSCOPE FOR DYNAMICALLY LOADED MATERIALS
INTELLIGENT SYSTEMS INTEGRATION INC.

ROSS

M 24
05/04/88
8394,000MU
88-NA-2159224,900
01/09/88
8394,901

THE DIVISION OF SPACE BY FOUR SETS OF PLANES

RE/SPEC INC

BOYLE

M 12
29/04/88
861,235MU
88-NA-231

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THE ROLE OF ACID-BASE INTERACTIONS IN THE ADHESION OF ASPHALT- AGGREGATE MIXTURES NATIONAL BUREAU OF STANDARDS	NGUYEN TIMM	N 10 29/04/88 8100.250	MU 88-WA-232	
FAILURE PROCESS AND MICROMECHANICAL STUDY OF CONCRETE MATERIALS PURDUE RESEARCH FOUNDATION	CHEN WAI-PAN	N 24 02/05/88 8198.953	MU 88-WA-233	
DYNAMIC ANALYSIS AND DAMPING CONTROL OF LAYERED PLATES AND SMELLS Y. Y. YU ASSOCIATES	YU Y	N 36 13/05/88 8136.200	MU 88-WA-240	
CONSTITUTIVE EQUATIONS FOR MICROCRACKED CONCRETE BY MICROMECHANICS AND LASER SPECKLE INTERFEROMETRY NEW JERSEY INSTITUTE OF TECHNOLOGY	MSU C THOMAS	N 24 03/06/88 8209.831	MU 88-WA-257	
RADIATION EFFECTS ON CONCRETE GENERAL ATOMICS	MILL DALE	N 30 08/06/88 8470.613	MU 88-WA-265	
ANALYTICAL STUDY OF CONCRETE PAVEMENT BEHAVIOR UNIV OF PUERTO RICO	RODRIGUEZ LEANDRO	N 12 10/06/88 874.204	A MU 88-WA-267	86.204 01/09/88 875.204

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FUNDAMENTAL STUDIES OF FRICTION, LUBRICATION AND WEAR BY ATOMIC FORCE MICROSCOPY INT'L BUSINESS MACHINE CORP	MCCLELLAND GARY	N 12 11/01/88 \$80,000	A BURGGRAF 88-MC-072	880,350 01/10/88 8252,686
STUDIES OF LIQUID/SOLID INTERFACES BY NONLINEAR SPECTROSCOPY COLUMBIA UNIVERSITY	EISENTHAL KENNETH	N 12 11/01/88 \$110,011	BURGGRAF 88-MC-073	
SIMPLIFIED FABRICATION OF STABLE HIGH TEMPERATURE SUPERCONDUCTING FILMS, BY COEVAPORATION OF FLUORIDES BELTRAN ASSOCIATES INC	SIMO CONSTANCE	N 06 14/01/88 \$50,000	BURGGRAF 88-MC-089	
IMPROVED DUCTILITY IN MELT SPUN HTSC RIBBON/WIRE: YB/EU-Ba-CU ALLOYS OF NOBLE METALS BELTRAN ASSOCIATES INC	SIMO CONSTANCE	N 06 14/01/88 \$50,000	BURGGRAF 88-MC-090	
SIMPLIFIED FABRICATION OF STABLE HIGH TEMPERATURE SUPERCONDUCTING FILMS, BY PULSED LASER EVAPORATION OF THE FLUORINATED 1-2-3 COMPOU BELTRAN ASSOCIATES INC	SIMO CONSTANCE	N 06 14/01/88 \$50,000	BURGGRAF 88-MC-091	
SCANNING TUNNELING MICROSCOPE STUDIES OF FACETING UNIVERSITY OF MARYLAND	WILLIAMS ELLEN	N 12 01/02/88 \$94,147	BURGGRAF 88-MC-113	865,094 01/06/88 9487,741
DYNAMICS OF GAS-SURFACE INTERACTIONS UNIV OF CHICAGO	SIDEMER STEVEN	N 12 03/02/88 \$135,395	A BURGGRAF 88-MC-130	868,510 01/05/88 868,650
MECHANISMS OF REACTIVE ETCHING PRINCETON UNIVERSITY	BERNASEK STEVEN	N 12 05/02/88 \$68,650	A BURGGRAF 88-MC-137	868,510 01/05/88 868,650
NEW MATERIALS APPROACHES TO TRIBOLOGY: THEORY AND APPLICATIONS MATERIALS RESEARCH SOCIETY	POPE LARRY	N 12 17/02/88 \$5,000	A BURGGRAF 88-MC-146	85,000 01/08/88 85,000

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TOT AMTELECTRONIC INTERACTIONS OF DIRECTED PHOTON BEAMS WITH SURFACES
VANDERBILT UNIVERSITY
TOLKN 12
23/02/88
\$112,761A
BURGGRAF
88-MC-149\$113,000
01/06/88
\$360,800

SURFACE SPECIES IN TRIBOLOGY

UNIV OF ILLINOIS
GELLMANN 12
29/02/88
\$114,900BURGGRAF
88-MC-151KINETICS OF SURFACE REACTIONS STUDIED BY LASER DESORPTION WITH
PTMS DETECTION
UNIV OF CALIFORNIA
HEMMINGERN 12
17/05/88
\$50,759A
BURGGRAF
88-MC-190\$21,119
01/09/88
\$50,769

MOLECULAR DYNAMICS OF ICING ON CABLES AND STRUCTURES

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
SUNDERN 12
27/05/88
\$160,000D
BURGGRAF
88-MC-198

CHEMISTRY AT SURFACES AND INTERFACES

DUKE UNIVERSITY
CRUMBLISSN 6
16/06/88
\$1,000D
BURGGRAF
88-MC-208PICOSECOND LASER STUDIES OF VIBRATIONAL ENERGY TRANSFER IN
MOLECULES ON SURFACES
NATIONAL BUREAU OF STANDARDS
CAVAMACHN 12
29/06/88
\$120,000A
BURGGRAF
88-MC-214\$120,000
01/10/88
\$120,000SURFACE CHEMISTRY OF CHEMICAL VAPOR DEPOSITION BY SECOND ORDER NON
LINEAR OPTICAL TECHNIQUES
SAN JOSE STATE UNIVERSITY
RODEN 12
30/06/88
\$293,133D
BURGGRAF
88-MC-217

ENERGY AND CHEMICAL CHANGE

RICE UNIVERSITY
KINSEYN 12
20/01/88
\$45,937A
DAVIS
88-MC-096\$31,712
01/11/88
\$100,510

STATE-RESOLVED REACTION DYNAMICS

STANFORD UNIVERSITY
ZAREN 12
01/02/88
\$361,503DAVIS
88-MC-112OXIDATION, NITRIDATION AND FLUORINE ETCHING OF Si
UNIV OF CALIFORNIA
CARTERN 12
02/02/88
\$90,821DAVIS
88-MC-117

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ANALYTICAL METHODS USING SLATER-TYPE ORBITALS IN QUANTUM CHEMISTRY

FLORIDA A&M UNIVERSITY

JONES

HERBERT

CALCULATIONS OF KINETIC DATA FOR PROCESSES LEADING TO UV SIGNATURE

CHEMICAL DYNAMICS CORPORATION

SWAMINATHAN

P

NEW ORGANIC MATERIALS FOR NONLINEAR OPTICS APPLICATIONS

NORTHERN ILLINOIS UNIVERSITY

SPANGLER

CHARLES

GELATION OF RODLIKE POLYMERS: FUNDAMENTAL CHARACTERISTICS AND
NOVEL MATERIALS

LOUISIANA STATE UNIVERSITY

RUSSO

PAUL

ELECTRONICALLY MONOADIABATIC CHEMISTRY

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DAVID

REACTIONS OF LASER-GENERATED FREE RADICALS AT SEMICONDUCTOR
SURFACES

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

STEINFELD

JEFFREY

1989 SAMUEL SYMPOSIA

UNIV OF FLORIDA

OMER

YNGVE

MOLECULAR DYNAMICS AND SPECTROSCOPY AT GAS-SOLID INTERFACES

STATE UNIVERSITY OF NEW YORK

GEORGE

THOMAS

COMPUTER SIMULATION OF REALISTIC MODELS OF BULK AMORPHOUS POLYMERS

UNIV OF CINCINNATI

ROE

R.

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N 12 02/02/88 \$88,079	A DAVIS 88-NC-123	\$7,490 01/09/88 \$285,255
N 06 10/03/88 \$49,862	A DAVIS 88-NC-159	\$49,862 01/08/88 \$49,862
N 12 08/04/88 \$80,509	DAVIS 88-NC-173	
N 12 02/05/88 \$114,015	DAVIS 88-NC-181	
N 12 26/05/88 \$59,310	DAVIS 88-NC 197	
R 12 01/06/88 \$95,023	A DAVIS 88-NC-201	\$95,023 01/10/88 \$95,023
N 12 02/06/88 \$9,500	DAVIS 88-NC-202	
R 12 13/06/88 \$119,000	A DAVIS 88-NC-207	\$109,000 01/10/88 \$109,000
N 12 29/06/88 \$103,355	DAVIS 88-NC-216	

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DEVELOPMENT OF A SLANTWISE CONVECTIVE PARAMETERIZATION SCHEME FOR AN OPERATIONAL MESOSCALE NUMERICAL WEATHER PREDICTION SYSTEM MESOSCALE ENVIRON SIMUL & OPER INC	V. MOHAN KARYAMPUDI	N 06 07/01/88 \$49,968	KOERNER 88-NC-070	
OPTIMAL FORMULATION OF PLANETARY BOUNDARY LAYER (PBL) PARAMETERIZATION FOR MESOSCALE NUMERICAL WEATHER PREDICTION (NWP) MASSACHUSETTS TECHNOLOGICAL LABORATORY	J CHANG	N 06 12/01/88 \$49,360	KOERNER 87-NC-075	
ATMOSPHERIC MESOSCALE MODEL DEVELOPMENT	THOMAS	N 06 12/01/88 \$46,230	KOERNER 88-NC-076	
ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	MEHRKORN	N 06 13/01/88 \$50,000	KOERNER 88-NC-079	
APPLICATIONS FOR AN AQUEOUS GAS SCRUBBER FOR THE MEASUREMENT OF AMMONIA AEROSOLS VIGYAN RESEARCH ASSOCIATES INC	RALPH MARINARO, JR	N 06 13/01/88 \$50,000	KOERNER 88-NC-080	
IN-SITU ATMOSPHERIC DRONE MEASUREMENTS WITH THE TUNGSTIC ACID TECHNIQUE VIGYAN RESEARCH ASSOCIATES INC	RALPH MARINARO, JR	N 06 13/01/88 \$50,000	KOERNER 87-NC-081	
IN-SITU ATMOSPHERIC DRONE MEASUREMENTS WITH THE ANNULAR DENUDER METHOD VIGYAN RESEARCH ASSOCIATES INC	RALPH MARINARO, JR	N 06 13/01/88 \$50,000	KOERNER 88-NC-082	
APPLICATION OF THE TUNGSTIC ACID TECHNIQUE FOR DETECTION OF AMMONIA AEROSOLS VIGYAN RESEARCH ASSOCIATES INC	RALPH MARINARO, JR	N 06 13/01/88 \$49,406	KOERNER 88-NC-083	
ULF RECEIVER/MAGNETOMETER	SUMAN	N 06 13/01/88 \$48,679	KOERNER 88-NC-084	
CENTER FOR REMOTE SENSING	GANGULY	N 06 13/01/88 \$44,360	KOERNER 88-NC-085	\$44,360 01/09/88 \$44,360
IMPROVED WIND PROFILER	SUMAN			
CENTER FOR REMOTE SENSING	GANGULY			
ON THE USE OF MULTIPROCESSING COMPUTERS FOR GLOBAL NUMERICAL WEATHER PREDICTION ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	HOFFMAN ROSS			

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PREDICTABILITY MEASURES OF ATMOSPHERIC GRAVITY WAVE STATES PHYSICAL DYNAMIC INC	WEST BRUCE	N 06 13/01/88 \$49,976	KOERNER 88-NC-086	
MICROBURST/WINDSHEAR WARNING SYSTEM AIRBORNE RESEARCH ASSOCIATES	MARKSON RALPH	N 06 14/01/88 \$50,000	KOERNER 88-NC-087	
SENSITIVE AEROSOL ELECTROMETER LAGUNA RESEARCH LAB	LOOS MEMORICUS	N 06 19/01/88 \$65,245	KOERNER 88-NC-094	
IMPROVED GLOBAL SPECTRAL MODEL MOISTURE AND CLOUD FORECASTING DUE TO INITIALIZATION BY OBSERVED OUTGOING LONGWAVE RADIATION FLORIDA STATE UNIVERSITY	ALLAN WEINER	N 12 22/01/88 \$50,000	A KOERNER 88-NC-098	\$4,000 01/05/88 \$21,000
IONOSPHERIC ELECTRIC FIELDS, CURRENTS AND JOULE HEATING AT HIGH LATITUDES NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	KROEML HERBERT	N 4 09/02/88 \$2,000	A KOERNER 88-NC-139	\$2,000 01/03/88 \$2,000
NON-SUPERCELLULAR TORNADOES UNIV OF CALIFORNIA	WAKIMOTO ROGER	N 12 10/02/88 \$53,300	KOERNER 88-NC-140	
MECOSPIERIC/THERMOSPHERIC INFRARED AERONOMY AND STRUCTURE INVESTIGATION UTAH STATE UNIVERSITY	ULWICK JAMES	N 12 10/02/88 \$109,595	KOERNER 88-NC-141	
MEWSSCALE SEVERE WEATHER DEVELOPMENT UNDER OROGRAPHIC INFLUENCES COLORADO STATE UNIVERSITY	REITER ELMAR	N 12 29/02/88 \$155,769	KOERNER 88-NC-152	
TRACE ELEMENTS IN CLOUD- AND PRECIPITATION-WATER MASSACHUSETTS INSTITUTE OF TECHNOLOGY	PAY JAMES	N 12 29/02/88 \$142,140	KOERNER 88-NC-153	

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NAS BOARD ON ATMOSPHERIC SCIENCE AND CLIMATE (BRASC)	HECHT	N 12 29/02/88 \$3,000	A KOERNER 88-NC-154	\$30,000 01/10/88 \$30,000
NOAA - R AND C ATMOSPHERIC PROGRAMS	ALAN			
LABORATORY EXPERIMENTS TO INVESTIGATE THE ROLE OF GRAVITY WAVE/ SHEAR INTERACTIONS IN GLOBAL ATMOSPHERIC CIRCULATION NORTHWEST RESEARCH ASSOCIATES, INC.	DELISI	N 06 10/03/88 \$52,744	KOERNER 88-NC-158	
EXPERIMENT ON RAPIDLY INTENSIFYING CYCLONES OVER THE ATLANTIC (ERICA) OFFICE OF NAVAL RESEARCH	KREITZBERG	N 12 17/03/88 \$5,000	KOERNER 88-NC-162	
ENVIRONMENTAL TECHNICAL EXCHANGE CONFERENCE PLANNING ACTIVITIES				
ARMY ENGINEER WATERWAYS EXPERIMENT STA	MUSKY	N 06 22/03/88 \$6,000	A KOERNER 88-NC-163	\$6,000 01/04/88 \$6,000
USU CENTER OF EXCELLENCE IN THEORY AND ANALYSIS OF THE GEO-PLASMA ENVIRONMENT UTAH STATE UNIVERSITY	SCHUNK	R 05 19/04/88 \$8,000	A KOERNER 88-NC-174	\$8,000 01/05/88 \$8,000
A NUMERICAL STUDY OF THE ROLE OF MESO B AND MESO Y SCALE VERTICAL EXCHANGE PROCESSES IN THE EVOLUTION OF UPPER TROPOSPHERIC FRONTAL - MEOSCALE ENVIRON SIMUL & OPER INC	KAPLAN	R 05 19/04/88 \$19,700	A KOERNER 88-NC-175	\$19,700 01/05/88 \$19,700
NUMERICAL MODELING OF MIDDLE AND HIGH LEVEL CLOUDS WITH THE COLORADO STATE UNIV REGIONAL ATMOSPHERIC MODELING SYSTEM COLORADO STATE UNIVERSITY	COTTON	N 05 10/05/88 \$9,240	M KOERNER 88-NC-183	
CONTINUATION OF THE INVESTIGATION OF ATMOSPHERIC EMISSIONS IN THE ULTRAVIOLET AND FAR ULTRAVIOLET WAVELENGTHS JOHNS HOPKINS UNIVERSITY	MENG	R 12 10/05/88 \$115,900	KOERNER 88-NC-184	
SNOW COVER AND ATMOSPHERIC VARIABLES COLUMBIA UNIVERSITY	ROBINSON	N 12 13/05/88 \$83,020	KOERNER 88-NC-186	
NUMERICAL SIMULATIONS OF MULTI-SCALE PHENOMENA ORI, INC.	HARRISON, JR	N 12 17/05/88 \$238,228	KOERNER 88-NC-191	

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NONLINEAR GRAVITY WAVE TRANSPORT AND ITS ROLE IN THE GENERAL CIRCULATION OF THE ATMOSPHERE PHYSICAL DYNAMICS INC	DUMBERTON TIMOTHY	N 12 25/05/88 869,704	KOERNER 88-MC-195	
EVALUATION OF THE PARTIAL MOLAR REFRACTIONS OF AQUEOUS ELECTROLYTES OF AMBIENT TROPOSPHERIC LIGHT SCATTERING IMPORTANCE ATLANTA UNIVERSITY CENTER INC	ARTHUR STELSON	N 12 31/05/88 854,518	KOERNER 88-MC-199	
AMS WORKSHOP ON FLOW AND TRANSPORT IN RUGGED TERRAIN AMERICAN METEOROLOGICAL SOCIETY	HAZUR EVELYN	N 03 31/05/88 95,000	KOERNER 88-MC-200	95,000 01/07/88 95,000
STUDIES OF THE AURORAL OVAL AND POLAR CAP USING INCOHERENT-SCATTER RADAR OBSERVATIONS AND THEORETICAL MODEL CALCULATIONS UTAH STATE UNIVERSITY	WICKHAM V	N 12 10/06/88 8139,879	KOERNER 88-MC-206	
HIGH RESOLUTION MOLECULAR SPECTROSCOPY OF ATMOSPHERIC SPECIES NORTH CAROLINA CENTRAL UNIVERSITY	DUTTA J	N 12 16/06/88 803,580	KOERNER 88-MC-209	
INVESTIGATIONS OF THE DYNAMICS AND THERMODYNAMICS OF THE MESOSPHERIC LOWER THERMOSPHERE AND UPPER THERMOSPHERE AT THE POLAR REGIONS WITH UNIV OF WASHINGTON	CLARK KENNETH	N 12 20/06/88 8162,716	KOERNER 88-MC-210	
RADAR-SATELLITE STUDIES OF THE HIGH-LATITUDE IONOSPHERE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	POSTER JOHN	N 12 23/06/88 8179,970	KOERNER 88-MC-212	
DEVELOPMENT OF PRACTICAL MO TECHNIQUES FOR PREDICTION OF THE PROPERTIES AND BEHAVIOR OF MATERIALS UNIV OF TEXAS	DEMAR MICHAEL J. S.	N 12 04/01/88 8166,663	MATUSIKO 88-MC-066	
NEW METHODOLOGY FOR FLUOROCARBON SYNTHESIS UNIV OF IOWA	BURTON DONALD	N 12 06/01/88 8130,676	MATUSIKO 88-MC-068	

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SYNTHESIS OF NEW METASTABLE ULTRATHIN MATERIALS				
KMS FUSION INC	WIXOM	N 06 14/01/88 849,992	MATUSZKO 88-MC-088	95,000 01/09/88 95,000
SYMPOSIUM ON METALS IN BIOCHEMISTRY AND MATERIALS SCIENCE				
GEORGIA UNIV RESEARCH FOUNDATION INC	KING	N 12 25/01/88 824,142	A MATUSZKO 88-MC-100	95,000 01/09/88 95,000
ORGANOSILICON MONOMERS AND POLYMERS; PRECURSORS TO SILICON-CONTAINING CERAMICS				
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SEYFERTH	N 12 26/01/88 8230,000	A MATUSZKO 88-MC-103	8230,000 01/10/88 8230,000
PRECURSOR DESIGN AND SYNTHESIS FOR ADVANCED OXIDE AND NITRIDE MATERIALS				
UNIV OF ARIZONA	WIGLEY	N 12 26/01/88 879,309	MATUSZKO 88-MC-104	9243,930 01/10/88 9732,222
CHEMICAL REACTIONS AND PROPERTIES OF ORGANOSILICON COMPOUNDS RELATED TO NEW MATERIALS				
UNIV OF WISCONSIN	WEST	N 12 28/01/88 8321,499	A MATUSZKO 88-MC-109	9243,930 01/10/88 9732,222
NEW N-N BOND FORMING REACTIONS. SYNTHESIS OF UNSATURATED NITROGEN COMPOUNDS OF THE MAIN GROUP AND TRANSITION ELEMENTS. EXPLORATORY				
UNIV OF CALIFORNIA	TROGLER	N 12 28/01/88 8124,029	MATUSZKO 88-MC-110	9243,930 01/10/88 9732,222
NEW INORGANIC-ORGANIC POLYMER SYSTEMS				
PENNSYLVANIA STATE UNIVERSITY	ALLCOCK	N 12 02/02/88 8178,115	MATUSZKO 88-MC-121	9243,930 01/10/88 9732,222
1988 GORDON RESEARCH CONFERENCE ON ELASTOMERS				
UNIV OF RHODE ISLAND	CRUICKSHANK	N 12 03/02/88 86,000	MATUSZKO 88-MC-129	9243,930 01/10/88 9732,222
DEVELOPMENT OF CHIRAL POLYSILOXANES FOR ENANTIOSELECTIVE SUPERCRITICAL FLUID CHROMATOGRAPHY				
BRIGHAM YOUNG UNIVERSITY	ROSSITER	N 12 11/02/88 889,557	MATUSZKO 88-MC-143	9243,930 01/10/88 9732,222
STRUCTURE AND PROPERTIES OF NOVEL COMPOUNDS OF SILICON, GERMANIUM, AND TIN				
UNIV OF TEXAS	MICHL	R 12 01/03/88 8100,000	A MATUSZKO 88-MC-155	8100,000 01/10/88 9300,000

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SILICON NITRIDE PRECURSORS		N 06 10/03/88 \$62,177	MATUSZKO 88-NC-160	
MC CHEMICAL RESEARCH & SERVICE CORP.	HSU			
BIOTECHNOLOGY AND AEROSPACE APPLICATIONS		N 05 05/04/88 \$4,000	A MATUSZKO 88-NC-169	\$4,000 01/05/88 \$4,000
UNITED STATES AIR FORCE ACADEMY	SAMPSON			
AT-RESIN RESEARCH: BIOTECHNICAL SUPPORT AND HETEROGENEOUS CATALYSIS		N 12 06/04/88 \$97,763	MATUSZKO 88-NC-170	
PENNSYLVANIA STATE UNIVERSITY	GORDON, III			
SYNTHESIS AND PROPERTIES OF METALLOCENE-BASED LIQUID CRYSTALS		N 12 26/04/88 \$109,155	MATUSZKO 88-NC-176	
UNIV OF OKLAHOMA	NICHOLAS			
DYNAMICS AND STABILIZATION OF MATERIALS POSSESSING HIGH ENERGY CONTENT		R 12 26/04/88 \$100,000	MATUSZKO 88-NC-177	
COLUMBIA UNIVERSITY	TURRO			
SUPPORT FOR THE FIRST INTERNATIONAL SYMPOSIUM ON ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY		N 12 11/05/88 \$10,000	MATUSZKO 88-NC-186	
SR. INTERNATIONAL	MACDONALD			
PICOSECOND LASER STUDIES OF CHEMICAL INTERMEDIATES		R 12 13/05/88 \$99,902	A MATUSZKO 88-NC-187	\$99,902 01/10/88 \$99,902
COLUMBIA UNIVERSITY	EISENTHAL			
ROLE OF FORMULATIONS AND STRUCTURES OF POLYSILAZANES ON THEIR PYROLYSIS CHARACTERISTICS		N 12 30/06/88 \$104,976	MATUSZKO 88-NC-218	
SR. INTERNATIONAL	BLUM			
PBT,PBO-BASED HYBRID POLYMERIC MATERIALS WITH NONLINEAR OPTICAL PROPERTIES		R 12 04/01/88 \$162,000	A ULRICH 88-NC-055	\$75,000 01/08/88 \$150,000
NORTHWESTERN UNIVERSITY	MARKS			
	TOBIN			

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AN X-RAY AND NEUTRON SCATTERING STUDY OF POLYMER BLENDS UNIVERSITY OF MICHIGAN	ULLMAN ROBERT	N 12 05/01/88 \$165,103	ULRICH 88-MC-067	
ORDERED POLYMER NONLINEAR OPTICAL MATERIALS FOSTER-MILLER INC	DRUY MARK	N 12 06/01/88 \$188,000	ULRICH 88-MC-069	\$188,000 01/04/88 \$376,000
HIGH JC SUPERCONDUCTING OXIDES VIA A THREE DIMENSIONAL TEMPLATE FOSTER-MILLER INC	LUSIGNEA RICHARD	N 06 07/01/88 \$64,319	ULRICH 88-MC-071	
SINGLE CRYSTAL SUPERCONDUCTING FIBERS OF LUBAZUC309-Y AND YBBA ZCJ300-Y LASERGENICS CORPORATION	SCHLECHT RICHARD	N 06 12/01/88 \$48,498	ULRICH 88-MC-077	
TECHNOLOGICALLY USEFUL MLO FILMS OF POLYPHENYLENE VINYLENE AND IDS COPOLYMERS FOSTER-MILLER INC	DRUY MARK	N 01 12/01/88 \$66,733	ULRICH 88-MC-078	\$66,733 01/08/88 \$66,733
CRYSTALLIZATION OF NANOCOMPOSITE GLASSES MADE BY THE SSG PROCESS PENNSYLVANIA STATE UNIVERSITY	ROY RUSTUM	N 12 21/01/88 \$153,530	ULRICH 88-MC-097	\$70,000 01/09/88 \$143,837
ZIRCONIUM METALLIC PRECURSOR ROUTES TO SI-C-AL-O-N RENSELAEER POLYTECHNIC INSTITUTE	INTERRAMTE LEONARD	N 12 27/01/88 \$116,697	ULRICH 88-MC-105	
CHEMICAL PROCESSING OF CERAMIC AND COMPOSITES UNIVERSAL ENERGY SYSTEMS INC	TAI-IL MAH	N 12 02/02/88 \$235,648	ULRICH 88-MC-126	
MOLECULAR OPTICS: NONLINEAR OPTICAL PROCESSES IN ORGANIC AND POLYMERIC CRYSTALS AND FILMS UNIV OF PENNSYLVANIA	GARITO A.	N 12 03/02/88 \$545,037	ULRICH 88-MC-132	\$175,000 15/08/88 \$1,500,000
PROCESSING, FABRICATION, CHARACTERIZATION, AND DEVICE DEMONSTRATION OF HIGH TEMPERATURE SUPERCONDUCTING CERAMICS BOEING CO	LUMMAN THOMAS	N 12 05/02/88 \$372,279	ULRICH 88-MC-136	\$559,000 01/09/88 \$1,116,822

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FRACTAL ASPECTS OF MATERIALS: DISORDERED SYSTEMS				
MATERIALS RESEARCH SOCIETY	WEITZ	N 12 17/02/88 83,000	ULRICH 88-MC-147	
ORGANIC AND POLYMERIC NONLINEAR OPTICAL MATERIALS				
POLYTECHNIC INSTITUTE OF NEW YORK	GERBI	N 06 23/02/88 95,000	A ULRICH 88-MC-150	95,000 15/05/88 95,000
TRACTABLE HIGH PERFORMANCE POLYMERS				
UNIV OF CALIFORNIA	SMITH	N 12 03/03/88 8403,500	ULRICH 88-MC-157	
MOLECULAR ENGINEERING, DYNAMICS OF ELECTRON TRANSPORT AND NONLINEAR OPTICAL INTERACTION IN LANGMUIR-BLODGETT FILMS ORGANIC STATE UNIVERSITY OF NEW YORK	PRASAD	R 12 15/03/88 85,492	ULRICH 88-MC-161	
MATERIALS SCIENCE AND ENGINEERING OF RIGID-ROD POLYMERS				
MATERIALS RESEARCH SOCIETY	ADAMS	N 12 29/03/88 821,000	A ULRICH 88-MC-166	88,000 01/09/88 88,000
SYNTHESIS AND PROPERTIES OF OXIDE POWDERS PREPARED BY HOMOGENEOUS PRECIPITATION TECHNIQUES	PARRY	N 12 01/04/88 8213,267	ULRICH 88-MC-167	
SOL-GEL SYNTHESIS OF MGAL2O4 SPINEL POWDERS FOR OPTICAL CERAMICS				
COLORADO SCHOOL OF MINES	INS	N 12 04/04/88 874,484	ULRICH 88-MC-168	
DEVELOPMENT OF A HIGH EFFICIENCY Q-SWITCHED GLASS LASER VIA SOL-GEL AND PROCESSING				
GEL-TECH, INC.	MOQUES	N 12 06/04/88 8100,000	ULRICH 88-MC-171	
A CENTER FOR ADVANCED ELECTRICAL AND STRUCTURAL POLYMERS				
UNIV OF MASSACHUSETTS	KARASZ	R 12 27/04/88 8569,953	A ULRICH 88-MC-179	81,000,000 03/10/88 81,330,000

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ULTRASTRUCTURE PROCESSING OF MACROMOLECULAR MATERIALS UNIV OF MASSACHUSETTS	KARASZ FRANK	N 12 28/04/88 \$365,000	A ULRICH 88-NC-180	8365,000 01/10/88 \$365,000
10TH UNIVERSITY CONFERENCE ON GLASS SCIENCE PHYSICS AND CHEMISTRY OF GLASS SURFACES PENNSYLVANIA STATE UNIVERSITY	PANTANO CARLO	N 12 09/05/88 \$9,851	ULRICH 88-NC-182	
EXPERT SYSTEM CONTROL OF ORIENTATION IN ORDERED POLYMERS FOR NLO APPLICATIONS FOSTER-MILLER INC	DRUY MARK	N 12 11/05/88 \$150,000	A ULRICH 88-NC-185	8249,973 30/09/88 \$499,947
POLYIMIDE-POLYETHERSULFONE BLENDS UNIV OF MASSACHUSETTS	KARASZ FRANK	N 12 15/05/88 \$100,000	ULRICH 88-NC-189	
DESIGN, SYNTHESIS AND CHEMICAL PROCESSING OF HIERARCHICAL CERAMIC STRUCTURES FOR AEROSPACE APPLICATIONS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BOWEN HARVEY	N 12 23/05/88 \$150,213	ULRICH 88-NC-192	
MULTIFUNCTIONAL POLYMER SYSTEMS M.C.C., SCIENCE & TECHNOLOGY INC.	CALUNDANN GORDON	N 12 23/05/88 \$399,912	ULRICH 88-NC-194	
ORGANOMETALLIC COMPOUNDS AND POLYMERS WITH SECOND AND THIRD ORDER NON-LINEAR OPTICAL PROPERTIES PRINCETON UNIVERSITY	THOMPSON MARK	N 12 26/05/88 \$197,884	ULRICH 88-NC-196	
THIN FILMS OF FUNCTIONAL POLYMERS FOR OPTO-ELECTRONIC APPLICATIONS : A NEW APPROACH TO MOLECULAR ARCHITECTURES UNIV OF MASSACHUSETTS	KARASZ FRANK	N 12 02/06/88 \$100,420	ULRICH 88-NC-203	
SOL-GEL OPTICS CHARACTERIZATION EQUIPMENT UNIV OF FLORIDA	MENCH D.	N 12 10/06/88 \$78,650	ULRICH 88-NC-205	
GROUP TRAVEL TO INTERNATIONAL CONFERENCE ON FUNDAMENTALS OF FRACTURE NATIONAL BUREAU OF STANDARDS	THOMPSON ROBB	N 12 21/06/88 \$5,000	D ULRICH 88-NC-211	

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PREPARATION AND CHARACTERIZATION OF NEW HIGH-TEMPERATURE 0-14 M IR TRANSMITTING CHALCOGENIDE GLASSES IOWA STATE UNIV OF SCIENCE AND TECH	MARTIN STEVE	N 12 27/06/80 868,353	ULRICH 80-NC-213	
THE FOURTH INTERNATIONAL CONFERENCE ON ULTRASTRUCTURE PROCESSING OF CERAMICS, GLASSES, AND COMPOSITES UNIV OF ARIZONA	UHLMANN D.	N 12 29/06/80 832,500	ULRICH 80-NC-215	
ULTRA-SENSITIVE ELEMENT ANALYSIS BY COMBINING LASER ATOMIZATION WITH RESONANCE IONIZATION SPECTROSCOPY ATOM SCIENCES, INC.	THOMBARO MORBERT	N 06 19/01/80 856,655	WILKES 80-NC-095	
MULTI-ELECTRON AND COUPLED ATOM TRANSFER REACTION KINETICS AT ELEC TROCHEMICAL INTERFACES NORTHWESTERN UNIVERSITY	MUPP JOSEPH	N 12 26/01/80 8127,959	WILKES 80-NC-101	
ELECTROCHEMICAL AND SPECTROSCOPIC STUDIES OF MOLTEN HALIDES UNIV OF TENNESSEE	MANANTOV GLEB	N 12 27/01/80 8105,369	A WILKES 80-NC-106	8130,000 15/09/80 8390,000
STRUCTURES, SPECTRA, AND THERMODYNAMICS OF DIALKYLIMIDAZOLIUM HALOALUMINATES ARGONNE NATIONAL LABORATORY	SABOUNGI MARIE-LOUISE	N 12 01/02/80 8100,000	WILKES 80-NC-111	
A QUANTITATIVE STUDY OF THE ELECTROCHEMICAL FORMATION OF SALT MONOLAYERS GEORGETOWN UNIVERSITY	DELEVIE ROBERT	N 12 01/02/80 8109,242	WILKES 80-NC-115	
SYNTHESIS, ION TRANSPORT AND THEORY OF SOLID POLYELECTROLYTES AND RELATED ROOM-TEMPERATURE MOLTEM SALT ELECTROLYTES NORTHWESTERN UNIVERSITY	RATNER MARK	N 12 04/02/80 8100,000	WILKES 80-NC-133	
PS CHEMICAL LASER STUDIES UNIV OF NEW HAMPSHIRE	WRIGHT JOHN	N 12 14/01/80 843,532	WOODARCZYK 80-NC-092	

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STATE RESOLVED DYNAMICS OF ION-MOLECULE COLLISIONS IN A FLOWING AFTERGLOW UNIV OF COLORADO	LEONE STEPHEN	N 12 15/01/88 9218.140	MODARCZYK 88-NC-093	
INFRARED SPECTROSCOPY AND DYNAMICS OF VAPOR PHASE COMPLEXES OF WATER UNIV OF NORTH CAROLINA	MILLER ROGER	N 12 26/01/88 9170.965	MODARCZYK 88-NC-107	
PHOTODISSOCIATION DYNAMICS OF CLUSTER IONS UNIV OF CALIFORNIA	BOWERS MICHAEL	N 12 02/02/88 9197.542	MODARCZYK 88-NC-118	
VACUUM ULTRAVIOLET STUDIES OF MOLECULAR DYNAMICS CORNELL UNIVERSITY	HOUSTON PAUL	N 12 02/02/88 9141.652	MODARCZYK 88-NC-119	
GA.-SURFACE INTERACTIONS NEAR DISSOCIATION THRESHOLD UNIV OF SOUTHERN CALIFORNIA	WITTIG CURT	N 12 02/02/88 9100.000	MODARCZYK 88-NC-120	
STATE-SPECIFIC ENERGY TRANSFER AND CHEMILUMINESCENT REACTIONS SR. INTERNATIONAL	CROSBY DAVID	N 12 02/02/88 9209.534	MODARCZYK 88-NC-125	
STATE-RESOLVED COLLISIONAL ENERGY TRANSFER IN HIGH VIBRATIONALLY EXCITED POLYATOMIC MOLECULES UNIV OF WISCONSIN	CRIM F. FLEMING	N 12 04/02/88 9123.923	MODARCZYK 88-NC-134	
TRANSIENT BEHAVIORS IN CHEMICAL REACTIONS UNIV OF CALIFORNIA	PIMENTEL GEORGE	N 12 11/02/88 9164.155	MODARCZYK 88-NC-142	
CHEMIELECTRON AND PHOTOELECTRON SPECTROSCOPY OF METALS AND METAL OXIDES OF IMPORTANCE IN THE UPPER ATMOSPHERE UNIV OF SOUTHAMPTON	DYKE JOHN	N 12 02/03/88 954.360	MODARCZYK 88-NC-156	
XVIII INFORMAL PHOTOCHEMISTRY CONFERENCE UNIV OF SOUTHERN CALIFORNIA	WITTIG CURT	N 08 08/04/88 55.000	A MODARCZYK 88-NC-172	96.900 01/09/88 96.900

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INFORMAL CONFERENCE ON THE CHEMISTRY OF ENERGETIC AZIDES, ISOCYANATE,
YES, AND RELATED MOLECULES
UNIV OF DENVER

INVESTIGATOR

COOMBE ROBERT

UNIMOLECULAR AND BIMOLECULAR REACTION DYNAMICS OF STATE (OR ENERGY
)-SELECTED CLUSTER IONS
IOWA STATE UNIV OF SCIENCE AND TECH

NG

CHEUK-YIU

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 12 23/05/88 84,090	A WODARCZYK 88-NC-193	82,515 01/09/88 82,515
N 12 06/06/88 899,817	WODARCZYK 88-NC-204	

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USING NEURAL NETWORK TO LEARN FEATURES FOR COMPUTER VISION CLARKSON UNIVERSITY	KOCH MARK	N 12 04/01/88 \$6,930	GILES 88-NE-038	
ALGORITHM/ARCHITECTURE STUDY ON ARTIFICIAL NEURAL NETS PRINCETON UNIVERSITY	KUNG SUN-YUAN	N 36 04/01/88 \$300,000	A GILES 88-NE-040	\$150,000 01/09/88 \$300,000
STABILITY AND ADAPTION OF NEURAL NETWORKS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	KOSKO BART	N 36 28/01/88 \$357,000	A GILES 88-NE-048	\$116,700 01/08/88 \$357,000
MULTI-CHANNEL, FAULT TOLERANT OPTICAL COMM TECH FOR INCREASED PERFORMANCE, THROUGHPUT, AND CAPACITY; SIMULTANEOUS VOICE, DATA PHOENIX DIGITAL CORPORATION	BROWN RONALD	N 06 01/02/88 \$47,391	GILES 88-NE-052	
H. F. MODULE CENTER FOR REMOTE SENSING	GANGULY SUMAN	N 06 01/02/88 \$49,267	GILES 88-NE-053	
BOROPHOSPHOSILICATE GLASS AS AN OPTICAL INTERCONNECT IN AN INTEGRATED CIRCUIT COMPLEX HARVEY MECHAN ASSOCIATES	MECHAN HARVEY	N 06 01/02/88 \$50,325	GILES 88-NE-054	
PORTABLE M. F. SOUNDER CENTER FOR REMOTE SENSING	GANGULY SUMAN	N 06 01/02/88 \$53,456	GILES 88-NE-055	
INVESTIGATIONS IN NONMONOTONIC REASONING ARTIFICIAL INTELLIGENCE RESEARCH INSTITUTE	BROWN FRANK	N 36 02/02/88 \$341,650	GILES 88-NE-056	
15TH ANNUAL INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE PENNSYLVANIA STATE UNIVERSITY	IRWIN MARY JANE	N 06 23/02/88 \$5,000	A GILES 88-NE-109	\$5,000 15/05/88 \$5,000

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INTEGRATED OPTO-ELECTRONIC COMPUTING UNIV OF SOUTHERN CALIFORNIA	STIEBER WILLIAM	N 07 23/02/88 \$66,000	A GILES 88-NE-111	\$66,000 01/07/88 \$66,000
RESEARCH ON SPATIAL LIGHT MODULATORS WITH INTERNAL MEMORY UNIV OF CALIFORNIA	WALPITA L	N 24 25/02/88 \$207,976	GILES 88-NE-116	
GENERALIZED CONSTRAINT ENCODING IN CONNECTIONIST NETWORKS NAVAL RESEARCH LABORATORY	GRIFFIN RICHARD	N 06 29/02/88 \$53,500	A GILES 88-NE-117	\$53,500 01/04/88 \$53,500
HIGHLY COMPACT MONOLITHIC INTEGRATED CIRCUITS FOR OPTICAL COMPUTING AND INTERCONNECTION APPLICATIONS UNIV OF SOUTHERN CALIFORNIA	FORREST STEPHEN	N 36 04/03/88 \$488,689	GILES 88-NE-123	
NEUROBIOLOGY AND SIMULATION OF NEURAL NETS FOR INVARIANT OBJECT RECOGNITION UNIV OF SOUTHERN CALIFORNIA	GAUDIOT JEAN-LUCH	N 36 07/03/88 \$400,000	A GILES 88-NE-124	\$200,000 01/08/88 \$400,000
DEVELOPMENT OF MULTIPIERED HOLOGRAM MODELS DESCRIBING OPTICAL INTERCONNECT AND MEMORY SYSTEMS UNIV OF ARIZONA	KOSTUK RAYMOND	N 36 08/03/88 \$258,427	GILES 88-NE-125	
AN OPTOELECTRONIC REALIZATION OF NEURAL NETWORK MODELS CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV AMNON	N 12 30/03/88 \$299,312	A GILES 88-NE-131	\$50,000 01/08/88 \$299,312
IEEE CONFERENCE OF NEURAL INFORMATION PROCESSING SYSTEMS, JOHNS HOPKINS UNIVERSITY	SEJNOWSKI TERRENCE	N 12 30/03/88 \$5,000	A GILES 88-NE-133	\$5,000 15/08/88 \$5,000
GENETIC SYNTHESIS OF NEURAL NETWORKS HONEYWELL INC	GUMA ALORE	N 12 05/04/88 \$104,882	GILES 88-NE-140	
ANNUAL MEETING OF INTERNATIONAL NEURAL NETWORK SOCIETY INT'L NEURAL NETWORK SOCIETY	GROSSBERG STEPHEN	N 12 22/04/88 \$10,000	A GILES 88-NE-150	\$10,000 01/08/88 \$10,000

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RESEARCH ON MATERIALS AND COMPONENTS FOR OPTO-ELECTRONIC SIGNAL PROCESSING AND COMPUTING UNIV OF CALIFORNIA	C. CHANG	R 24 02/05/88 \$283,242	GILES 88-NE-159	
PHYSICS, ENGINEERING AND APPLICATIONS OF AN ULTRAFAST SPATIAL LIGHT MODULATOR CITY COLLEGE - CUNY	ALFANO	N 36 05/05/88 \$601,198	GILES 88-NE-161	
BIT-WISE IMPLEMENTATION OF DIGITAL FILTERS WITH NEURAL NETWORKS UNIV OF CALIFORNIA	BAVARIAN	N 24 17/05/88 \$150,037	GILES 88-NE-166	
OPTICAL CROSS-BAR MATRIX SWITCH DESIGN STUDY USING HIGH TEMPERATURE SUPERCONDUCTIVITY NAVAL RESEARCH LABORATORY	SZU	N 04 23/05/88 \$30,000	A GILES 88-NE-168	\$30,000 01/06/88 \$30,000
COMPUTING SYSTEMS BASED ON A MODEL OF DATA PROCESSING WITHIN THE NEURON NEW YORK CITY TECHNICAL COLLEGE - CUNY	BARNETT	N 36 25/05/88 \$184,983	GILES 88-NE-174	
A GENETIC ADAPTIVE SYSTEMS FOR IMAGE UNDERSTANDING AND LEARNING RESEARCH INSTITUTE FOR STUDY OF INTELLIGENT SYS.	EISENHART	N 12 31/05/88 \$806,309	GILES 88-NE-178	
SENSORIMOTOR NEUROBOTICS: COMPUTATION OF INTRINSIC COORDINATES BY NEURAL NETS NEW YORK UNIVERSITY MEDICAL CENTER	PELLIONISZ	N 36 09/06/88 \$587,415	GILES 88-NE-175	
ADAPTATIVE DYNAMICS WITH NETWORKS & GEOMETRICAL LEARNING ALGORITHMS UNIV OF ILLINOIS	OMOHUNDRO	N 36 15/06/88 \$448,700	GILES 88-NE-188	
HIGHLY ORIENTED FIBER REINFORCED CERAMIC COMPOSITES CERAMICS PROCESS SYSTEMS	MUDGE	N 04 05/02/88 \$50,000	A HARITOS 88-NE-066	\$50,000 01/06/88 \$50,000

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DEFECT REDUCTION IN EPITAXIAL GROWTH USING SUPERLATTICE BUFFER
LAYERS

NORTH CAROLINA STATE UNIVERSITY

BEDAIR

SALAM

LIMITATIONS OF THE TRANSMISSION OF PAR-INFRARED LASER RADIATION
THROUGH CONDENSED MATTER

BRON

W

DEPOSITION OF KTN FILMS BY ATOMIC LAYER EPITAXY

HUGHES RESEARCH LABORATORIES

ELWELL

DENNIS

POST NUCLEATION HETEROEPITAXY IN NON-LATTICE-MATCHING SYSTEMS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

THOMPSON

CARL

MECHANICAL PROPERTIES OF SEMICONDUCTORS AND THEIR ALLOYS

SR. INTERNATIONAL

SHER

ARON

HOMER OF 2(N)S(Ce)/2(N)S(X)-S(Ce)(1-X) QUANTUM WELL LASERS

EUROPEAN OFFICE OF AERO RSCH AND DEVELOP

SMITH, LT COL, USAF LABEL

IMSB/COINTE METROSTRUCTURE

ELECTRO-OPTIK CORPORATION

CHAN

WILLIAM

PROCESS MODELING OF MOCVD GROWTH TECHNIQUE VIA NUMERICAL
SIMULATION-APPLICATION TO GAAS, ALGAAS AND INGAAS

METYAPPAN

W

GAAS SPREADING RESISTANCE MEASUREMENT INSTRUMENT

FOUR DIMENSIONS, INC

CHEN

JAMES

ANALYSIS OF GROWTH-INDUCED INTERFACE ROUGHNESS EFFECTS ON
METROSTRUCTURES DEVICES

COON

DARRYL

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
R 30 04/01/88 \$412,000	A MALLOY 88-NE-035	\$131,000 01/04/88 \$412,000
N 36 04/01/88 \$544,978	MALLOY 88-NE-037	
N 36 04/01/88 \$632,384	MALLOY 88-NE-039	
R 18 04/01/88 \$136,000	A MALLOY 88-NE-042	\$136,000 15/04/88 \$135,808
R 36 28/01/88 \$573,991	A MALLOY 88-NE-049	\$28,292 01/09/88 \$505,191
N 36 29/01/88 \$294,142	MALLOY 88-NE-051	
N 06 11/02/88 \$57,721	MALLOY 88-NE-083	
N 06 11/02/88 \$51,517	MALLOY 88-NE-084	
N 06 11/02/88 \$50,000	MALLOY 88-NE-085	
N 06 11/02/88 \$50,000	MALLOY 88-NE-086	

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MULTI-METROSTRUCTURES BY ENERGY ION IMPLANTATION SPIRE CORPORATION	NAMAVAR PEREYDOON	N 06 11/02/88 \$53,357	MALLOY 88-NE-087	
MONTI CARLO SIMULATION OF HOMOEPITAXIAL AND HETEROEPITAXIAL THIN FILM GROWTH DYNAMICS AERODYNE RESEARCH INC	STINESPRING CHARTER	N 06 11/02/88 \$49,927	MALLOY 88-NE-088	
LOW TEMPERATURE OPTICAL CONSTANTS OF OPTOELECTRONIC MATERIALS J. A. WOOLLAM COMPANY	WOOLLAM JOHN	N 06 11/02/88 \$50,000	MALLOY 88-NE-089	
ELECTRO-OPTIC POLARIZATION EFFECTS FROM HETEROJUNCTION STRUCTURES J. A. WOOLLAM COMPANY	WOOLLAM JOHN	N 06 11/02/88 \$50,000	MALLOY 88-NE-090	
GROWTH STUDIES OF METAL-METAL/SEMICONDUCTOR STRUCTURES CHEMICAL DYNAMICS CORPORATION	MURTHY C	N 06 11/02/88 \$49,908	A MALLOY 88-NE-091	\$49,908 01/08/88 \$49,908
HETEROEPITAXY CVD EQUIPMENT CORPORATION	CHANDRAM RAVI	N 06 11/02/88 \$49,875	MALLOY 88-NE-092	
THERMOCHEMISTRY OF HYDROCARBON DECOMPOSITION AND RELATIONSHIP TO PROPERTIES OF PECVD DIAMOND FILMS CRYSTALLUME	RAVIED K	A 24 11/02/88 \$497,892	A MALLOY 88-NE-093	\$248,892 15/09/88 \$497,892
SELECTIVE-AREA EPITAXY OF GALLIUM ARSENIDE ON SILICON SPIRE CORPORATION	HAVEN VICTOR	N 06 11/02/88 \$37,120	MALLOY 88-NE-095	
ELECTRICALLY CONDUCTING GRAPHITIC CARBON ULTRASTRUCTURES EMBEDDED IN DIAMOND SUBSTRATES DIAMOND MATERIAL INSTITUTE, INC.	KOBA RICHARD	N 06 17/02/88 \$67,544	MALLOY 88-NE-103	

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DESIGN OF A SUB-MICRON SEVERAL MEV SCANNING ION MICROSCOPE FOR THREE-DIMENSIONAL MATERIAL CHARACTERIZATION NANOPTICS INC.	DANFORD	N 06 17/02/88 850,000	MALLOY 88-NE-104	
INSTRUMENT FOR NANOMETER LITHOGRAPHY BASED ON SCANNING TUNNELING MICROSCOPY QUANSCAN, INC.	WEST	N 06 17/02/88 849,696	MALLOY 88-NE-105	
INTERNATIONAL CONFERENCE ON NARROW GAP MATERIALS NORTH TEXAS STATE UNIVERSITY	SEILER	N 12 24/02/88 87,000	MALLOY 88-NE-115	
OPTICAL PROPERTIES OF THIN FILMS PENNSYLVANIA STATE UNIVERSITY	VEDAM	R 24 01/03/88 8203,199	MALLOY 88-NE-118	
THERMODYNAMICS, KINETICS, & INTERFACE MORPH OF PHASE FORMATION REACTIONS AT METAL/INDIUM PHOSPHIDE INTERFACES: BULK VS THIN- UNIV OF WISCONSIN	CHANG	N 36 01/03/88 9388,620	MALLOY 88-NE-119	
DEVELOP AND ACCELERATOR MASS SPECTROMETRY FACILITY FOR TRACE ELEMENT CHARACTERIZATION IN ELECTRONIC MATERIALS UNIV OF TEXAS STATE UNIVERSITY	MCDANIEL	N 36 01/03/88 91,489,878	MALLOY 88-NE-120	
6TH INTERNATIONAL CONFERENCE ON HOT CARRIERS IN SEMICONDUCTORS ARIZONA STATE UNIVERSITY	FERRY	N 18 03/03/88 825,000	MALLOY 88-NE-121	
THE PHYSICS AND DYNAMICS OF SURFACE EMITTING LASER DIODES LOCKHEED MISSILES & SPACE CO INC	WANG	N 36 04/03/88 9450,000	A MALLOY 88-NE-122	950,000 01/06/88 9450,000
MODULATION SPECTROSCOPY CHARACTERIZATION OF SEMICONDUCTOR MESOSTRUCTURES BROOKLYN COLLEGE OF CUNY	POLLAK	N 36 10/03/88 9379,866	MALLOY 88-NE-127	
1988 MRS: SYMPOSIUM ON THIN FILMS STRESSES AND MECHANICAL PROPERTIES MATERIALS RESEARCH SOCIETY	BALLANCE	N 07 01/04/88 95,000	MALLOY 88-NE-137	

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SULPICSECONO RESOLVED INCIPIENT LASER DAMAGE UNIV OF CALIFORNIA	BROWN	N 36 22/04/88 \$449,654	MALLOY 88-NE-149	
ARCHITECTURE AND DESIGN OF HIGH SPEED VLSI AIR FORCE INSTITUTE OF TECHNOLOGY	LINDERMAN	N 06 26/04/88 \$30,000	A MALLOY 88-NE-155	\$30,000 04/01/88 \$30,000
SUPPORT OF THE WORKSHOP ON THE PHYSICS AND CHEMISTRY OF MERCURY CADMIUM TELLURIDE ARMY RESEARCH OFFICE	STROSCIO	N 04 02/05/88 \$7,000	A MALLOY 88-NE-158	\$7,000 01/06/88 \$7,000
BEAM ASSISTED FABRICATION OF III-V/ SILICON MONOLITHIC DEVICES COLORADO STATE UNIVERSITY	ROBINSON	R 12 26/05/88 \$200,000	MALLOY 88-NE-176	
ELECTRON-PHONON INTERACTIONS AND ELECTRONIC PROPERTIES OF CONFINED SEMICONDUCTOR SYSTEMS STATE UNIVERSITY OF NEW YORK	LIN	N 36 02/06/88 \$331,831	MALLOY 88-NE-179	
THIN MAGNETIC FILMS UNIV OF MINNESOTA	DAHLBERG	N 36 02/06/88 \$362,786	MALLOY 88-NE-180	
VIBRATIONAL, MECHANICAL AND THERMAL PROPERTIES OF III-V SEMICONDUCTORS UNIV OF NOTRE DAME	DOU	R 36 06/06/88 \$312,160	MALLOY 88-NE-181	
FOURTH INTERNATIONAL CONFERENCE ON MODULATED SEMICONDUCTOR STRUCTURES UNIV OF MICHIGAN	MERLIN	N 12 28/06/88 \$8,000	MALLOY 88-NE-193	
NONLINEAR OPTICS AND TRANSPORT IN SEMICONDUCTORS SUPERLATTICES WORLESTER POLYTECHNIC INSTITUTE	RAM-MOHAN	N 36 29/06/88 \$440,517	MALLOY 88-NE-197	

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ULTRASONIC INSTRUMENTATION TO CONTROL CERAMIC PROCESSING INDUSTRIAL QUALITY INC	JONES THOMAS	N 06 05/02/88 953,297	ROSENSTEIN 88-NE-058	
DEVELOPMENT AND RESPONSE MODELING OF 3-D REINFORCED HYBRID MMC OWA COMPOSITE SPECIALTIES, INC.	DOLOWY, JR JOSEPH	N 06 05/02/88 849,956	ROSENSTEIN 88-NE-059	
DEVELOPMENT OF AN ISOTROPIC HIGH-SYMMETRY SOLID (IMSS) INTELLIGENT SYSTEMS INTEGRATION INC.	ROSS TIMOTHY	N 06 05/02/88 867,875	ROSENSTEIN 88-NE-060	
RESEARCH INSTRUMENTATION RUTHERFORD RESEARCH	CHOMOMURY B	N 06 05/02/88 850,000	ROSENSTEIN 88-NE-061	
HIGH SYMMETRY COMPOSITES FABRICATED FROM RANDOM VGCF AND THERMOPLASTICS APPLIED SCIENCE, INC.	BRITO K	N 06 05/02/88 892,421	ROSENSTEIN 88-NE-062	
DEVELOPMENT OF A NEW BERYLLIUM/GRAPHITE-EPONY SANDWICH COMPOSITE ADVANCED COMPOSITE ENGINEERING, INC.	SUN C	N 06 05/02/88 849,280	ROSENSTEIN 88-NE-063	
HIGH SYMMETRY STRUCTURAL COMPOSITES: ANALYTICAL DESIGN TOOL CONCEPT ANALYSIS CORPORATION	GLANCE PAUL	N 06 05/02/88 850,000	ROSENSTEIN 88-NE-064	
HIGH SYMMETRY RANDOM AGGREGATE MICROLAMINATE (RAM) STRUCTURAL COMPOSITES UTILITY POWER GROUP	DESHPADEY CHANDRA	N 06 05/02/88 846,275	ROSENSTEIN 88-NE-065	
TETRAHEDRAL FRAMES FOR STRUCTURES AND COMPOSITES DBA JAG INDUSTRIES	MOLT ALBERT	N 06 23/02/88 850,000	ROSENSTEIN 88-NE-107	
SURFACE-MODIFIED TITANIUM-ALUMINIDE ALLOYS CASE WESTERN RESERVE UNIVERSITY	WELSCH GERHARD	N 36 24/02/88 8633,318	ROSENSTEIN 88-NE-113	

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TRANSFORMATION TOUGHENING OF CERAMICS

ROCKWELL INTERNATIONAL

MARSHALL

DAVID

R 36
09/03/88
\$599,886

ROSENSTEIN
88-NE-126

STRENGTHENING MECHANISMS, CREEP AND FATIGUE PROCESSES IN
DISPERSION-STRENGTHENED NIOBIUM ALLOYS

MUKHERJEE

A

N 36
28/03/88
\$540,000

ROSENSTEIN
88-NE-130

LASER SURFACE MODIFICATION OF Mg AND W(B) ALLOYS

UNIV OF ILLINOIS

HAZUNDER

J

N 36
18/04/88
\$466,952

ROSENSTEIN
88-NE-146

THE CORROSION RESISTANCE OF METAL MATRIX COMPOSITES

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LAFANISION

R

N 36
25/04/88
\$321,977

ROSENSTEIN
88-NE-153

QUANTUM MECHANICAL APPROACH TO UNDERSTANDING MICROSTRUCTURAL AND
MECHANICAL PROPERTIES OF INTERMETALLICS

FREEMAN

A

N 36
25/04/88
\$437,904

ROSENSTEIN
88-NE-154

FUNDAMENTAL STUDIES ON HIGH TEMPERATURE DEFORMATION,
RECRYSTALLIZATION AND GRAIN GROWTH OF TWO-PHASE MATERIALS

ANKER

A

R 12
05/05/88
\$89,990

ROSENSTEIN
88-NE-160

SYMPOSIUM ON ATOMISTIC MODELING OF MATERIALS: BEYOND PAIR
POTENTIALS

UNIV OF PENNSYLVANIA

VITEK

V

N 09
13/05/88
\$6,000

ROSENSTEIN
88-NE-165

TAILORED INTERFACES FOR METAL-MATRIX COMPOSITES-FUNDAMENTAL
CONSIDERATIONS

NORTHWESTERN UNIVERSITY

FINE

MORRIS

N 36
18/05/88
\$391,590

ROSENSTEIN
88-NE-167

A FUNDAMENTAL UNDERSTANDING OF THE EFFECT OF ALLOYING ELEMENTS ON
THE CORROSION RESISTANCE OF RAPIDLY SOLIDIFIED Mg ALLOYS

JOHNS HOPKINS UNIVERSITY

KRUGER

JEROME

N 12
24/05/88
\$30,000

ROSENSTEIN
88-NE-171

\$30,000
30/09/89
\$30,000

\$125,306
01/10/88
\$391,590

\$4,000
01/09/88
\$4,000

\$236,694
30/09/88
\$437,904

\$150,653
01/11/88
\$466,952

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LARGE VOLUME CHANGE, TRANSFORMATION TOUGHENING IN COMPOSITE CERAMICS UNIV OF ILLINOIS	KRIVEN	N 36 13/06/88 9345,000	ROSENSTEIN 88-NE-186	
INVESTIGATE & CHARACTERIZE DAMAGE PROCESSES IN FIBER COMPOSITES UNDER REPEATED LOAD CYCLES UNIV OF DENVER	HANSTAD	N 36 21/06/88 9262,101	ROSENSTEIN 88-NE-191	
CRACK GROWTH PROCESSES AT ELEVATED TEMPERATURES IN ADVANCE MATERIALS SOUTHWEST RESEARCH INSTITUTE	LANKFORD	N 36 28/06/88 8556,000	ROSENSTEIN 88-NE-194	
PLASTICITY OF SINGLE CRYSTALLINE Al(3)X INTERMETALLIC COMPOUNDS UNIV OF PENNSYLVANIA	VITEK	N 36 28/06/88 8455,827	ROSENSTEIN 88-NE-195	
NATO ADVANCED STUDY INSTITUTE DIFFUSION IN MATERIALS CLEMSON UNIVERSITY	LASKAR	N 12 28/06/88 813,500	ROSENSTEIN 88-NE-196	
SUPERCONDUCTIVE ELECTRONICS - ASI NATIONAL SCIENCE FOUNDATION	PRODYNA	N 06 05/02/88 910,000	A WEINSTOCK 88-NE-067	910,000 15/03/88 910,000
ONE ANGSTROM RESOLUTION POSITIONING SYSTEM FOR MATERIAL AND PROCESS DIAGNOSTIC APPLICATION SATCON TECHNOLOGY CORPORATION	HOCKNEY	N 06 05/02/88 959,966	WEINSTOCK 88-NE-068	
PULSED INTERFEROMETER FOR ACOUSTIC ATTENUATION AND VELOCITY MEASUREMENTS RITEC INC.	PETERSON	N 06 05/02/88 952,400	WEINSTOCK 88-NE-069	
NOVEL NDE METHOD FOR ON-LINE MICROSTRUCTURAL QUALITY CONTROL OF HIGH PERFORMANCE FIBERS BAIRNROSE CORP. OF AMERICA	ROSEMEIER	N 06 08/02/88 850,136	WEINSTOCK 88-NE-070	
ALL-OPTICAL MAGNETOMETER EMPLOYING DILUTED MAGNETIC INSULATOR (DMI) FOR NMR IMAGING SYSTEMS AMERICAN RESEARCH CORP OF VIRGINIA	MIZURA	N 06 08/02/88 849,925	WEINSTOCK 88-NE-071	

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NEW SOLID-STATE IMAGING MEDIA FOR RADIO RADIOGRAPHIC INSPECTION JUANTEX CORPORATION	STORTI GEORGE	N 06 08/02/88 949,985	WEINSTOCK 88-NE-072	
RESEARCH INSTRUMENTATION - X-RAY COMPUTERIZED TOMOGRAPHY TERRA TEK INC	SHARER JOHN	N 06 08/02/88 950,000	WEINSTOCK 88-NE-073	
SUPERCONDUCTIVE DEVICES FOR NONDESTRUCTIVE TESTING PHYSICAL DYNAMIC INC	PODNEY WALTER	N 06 08/02/88 952,976	A WEINSTOCK 88-NE-074	952,976 01/08/88 952,976
A LUN-CONTACT METHOD OF ACCURATELY MEASURING CRITICAL TEMPERATURES (TCC), IN SUPERCONDUCTING MATERIALS: INSTRUMENT PROTOTYPE BELTRAN INC	SIMO CONSTANCE	N 06 11/02/88 950,000	WEINSTOCK 88-NE-098	
ATOMIC FORCE MICROSCOPE FOR SURFACE AND INTERFACE ANALYSIS INDUSTRIAL DETECTION TECHNOLOGY CORP.	LOWENSTINE MARK	N 06 11/02/88 959,861	WEINSTOCK 88-NE-099	
HIGH T(C) SUPERCONDUCTING FILMS ON SILICON SUBSTRATES ENERGY SCIENCE LABORATORIES, INC.	CLINTON JAMES	N 06 11/02/88 969,760	WEINSTOCK 88-NE-101	
ASSESSMENT OF JAPANESE RED ACTIVITIES ON HIGH TEMPERATURE OXIDE SUPERCONDUCTORS ADVANCED MATERIALS TECHNOLOGY	KIM Y	N 06 18/02/88 915,000	A WEINSTOCK 88-NE-106	915,000 01/06/88 915,000
DEVELOPMENT OF SUPERCONDUCTOR POLYMER COMPOSITES ELECTRO-KINETIC SYSTEMS, INC.	LEDERMAN BURTON	N 06 23/02/88 949,850	WEINSTOCK 88-NE-108	
THEORY OF SUPERCONDUCTIVITY IN Q:IDES PRINCETON UNIVERSITY	ANDERSON PHILLIP	R 24 24/02/88 9200,000	A WEINSTOCK 88-NE-114	9100,000 15/08/88 9200,000

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COMPUTER ORIENTED, MULTICHANNEL, DIRECT-CURRENT, SUPERCONDUCTING QUANTUM INTERFERENCE DEVICE APPLIED RESEARCH CORPORATION		DRUKIER	N 06 13/04/88 855,160	A WEINSTOCK 88-NE-143	855,160 01/08/88 855,160
SUPERCONDUCTING WEISNER EFFECT BEARINGS FOR CRYOGENIC TURBOMACHINES CREARE INC. RESEARCH & DEVELOPMENT INC		STACY	N 06 13/04/88 849,965	A WEINSTOCK 88-NE-144	849,965 01/08/88 849,965
ENHANCED J(C) IN YBCA(C2)(C3)(C7-X) CONDUCTORS USING DUAL-TEMPERATURE EXTRUSION PROCESSING SUPERCON, INC.		WONG	N 06 13/04/88 850,000	A WEINSTOCK 88-NE-145	850,000 01/08/88 850,000
PHYSICS OF ULTRASMALL SUPERCONDUCTING CIRCUITS YALE UNIVERSITY		PROBER	N 24 22/04/88 839,953	A WEINSTOCK 88-NE-151	819,886 01/08/88 839,953
CREATION OF A CENTER FOR RESEARCH IN SUPERCONDUCTIVITY AND SUPERCONDUCTING ELECTRONICS AT STANFORD UNIVERSITY STANFORD UNIVERSITY		DEASLEY	N 36 25/04/88 82,987,562	A WEINSTOCK 88-NE-152	8200,000 01/09/88 82,990,562
A PROPOSAL CONCERNING SUPERCONDUCTING MICRONETWORKS: NONLINEAR NETWORK EQUATIONS AND CRITICAL CURRENTS UNIV OF CALIFORNIA		PINK	N 36 27/04/88 8298,242	D WEINSTOCK 88-NE-156	
PREPARATION OF THE NEW HIGH TEMPERATURE SUPERCONDUCTOR BY EXTREME PRESSURIZATION COLORADO STATE UNIVERSITY		PATEL	N 12 06/05/88 887,235	D WEINSTOCK 88-NE-162	
ULTRASONIC WAVES INTERACTIONS WITH ADVANCED COMPLEX MATERIALS FOR NONDESTRUCTIVE EVALUATION APPLICATION UNIV OF CINCINNATI		NAVPEM	R 36 06/05/88 8341,164	WEINSTOCK 88-NE-163	
PROCESSING OF AMORPHOUS SOFT-MAGNETIC POWDERS BY EDC FOR HIGH-EFFICIENCY MAGNETIC APPLICATIONS UNIV OF KENTUCKY		OKAJAKI	N 36 11/05/88 8342,360	D WEINSTOCK 88-NE-164	
ELECTROCHEMICALLY MODULATED SUPERCONDUCTIVITY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		SADOWNY	N 13 26/05/88 8102,500	A WEINSTOCK 88-NE-172	8102,500 01/19/88 8102,500

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EXPERIMENTS ON LARGE SINGLE CRYSTALS OF THE SUPERCONDUCTING OXIDES YBa2Cu3O7, La2-xBaxCuO4, AND Bi-Ca-Sr-Cu PRINCETON UNIVERSITY	ONG	N 20 27/05/88 \$100,601	A WEINSTOCK 88-NE-177	825,601 01/09/88 \$100,601
PULSED LASER DEPOSITION OF HIGH Tc SUPERCONDUCTING THIN FILMS HEROX RESEARCH CENTER	BOYCE	N 12 17/06/88 \$50,600	WEINSTOCK 88-NE-199	
ULTRA HIGH PRECISION ISOTOPE ANALYSIS AND MALOGEN DERIVATIVES OF CERAMIC SUPERCONDUCTORS UNIV OF CALIFORNIA	DESTERREICHER	N 36 21/06/88 \$489,087	WEINSTOCK 88-NE-190	
LOW-COST, HIGH TORQUE-TO-WEIGHT RATIO PERMANENT MAGNET MOTORS, ACTUATORS AND SENSORS ADVANCED MATERIALS CORPORATION	SANKAR	N 24 21/06/88 \$493,180	WEINSTOCK 88-NE-192	
MOCVD GROWTH OF GaAs ON HIGH RESISTIVITY FLOAT ZONE SILICON SUBSTRATES FOR HIGH FREQUENCY DEVICES WESTINGHOUSE ELECTRIC CORPORATION	MESSHAM	N 36 27/01/88 \$600,378	A WITT 88-NE-047	
DEVICE FOR RECORDING AND DIGITIZING HIGH FIDELITY FILM IMAGES SILHOUETTE TECHNOLOGY, INC	DWYER	N 06 08/02/88 \$49,976	WITT 88-NE-075	
INSTANTANEOUS AND INTEGRATING POWER MEASURING OSCILLOSCOPE INTERFACE ELECTRONIC DESIGN CONSULTANT	LEPPERSON	N 06 08/02/88 \$47,436	WITT 88-NE-076	
DETECTION AND IMAGING OF SUBSURFACE DEFECTS ON SILICON INTEGRATED CIRCUIT WAFERS WITH A NONDESTRUCTURE, REAL-TIME THERMAL WAVE TECH THERMA-WAVE, INC	SMITH	N 06 08/02/88 \$50,000	WITT 88-NE-077	
VARIABLE ANGLE SPECTROSCOPIC ELLIPSOMETRY (VASE) FOR NONDESTRUCTIVE SEMICONDUCTOR SURFACE ANALYSIS J. A. WOOLLAM COMPANY	WOOLLAM	N 06 08/12/88 \$50,000	WITT 88-NE-078	

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MICROSTRUCTURAL CHARACTERIZATION OF NON-LATTICE MATCHED HETEROEPIITAXIAL STRUCTURES BRIMROSE CORP. OF AMERICA	ROSEMEIER	N 06 08/02/88 \$50,136	WITT 88-NE-079	
EVALUATION OF HETEROJUNCTION INTERFACES USING ELECTRON BEAM ELECTROREFLECTANCE CHARLES EVANS L ASSOC.	HERMAN	N 06 08/02/88 \$49,600	WITT 88-NE-080	
NUMERICAL MODELING OF TWO-TERMINAL QUANTUM WELL DEVICES SCIENTIFIC RESEARCH ASSOCIATES INC	GRUBIN	N 06 09/02/88 \$56,197	A WITT 88-NE-081	\$56,197 01/08/88 \$56,197
NEW HIGH-EFFICIENCY SCINTILLATOR DEVICE FOR SEM'S QUANTEX CORPORATION	STORTI	N 06 09/02/88 \$49,985	WITT 88-NE-082	
A MONOLITHIC MICROWAVE NETWORK ANALYZER METRI WAVE INC.	WILLIAMS	N 06 11/02/88 \$49,725	WITT 88-NE-094	
RESEARCH INSTRUMENTATION MILLIMETER WAVE TECHNOLOGY, INC.	PORSYTHE	N 06 11/02/88 \$50,000	WITT 88-NE-096	
RESEARCH INSTRUMENTATION FOR NONDESTRUCTIVE EVALUATION OF SEMICONDUCTOR MATERIALS UNISOFT INC.	THOMPSON	N 06 11/02/88 \$51,000	WITT 88-NE-097	
DESIGN, FABRICATION, AND TESTING OF MILLIMETER POWER TRANSISTOR QUANSCAN, INC.	WANG	N 06 17/02/88 \$57,693	WITT 88-NE-102	
SUBMILLIMETER WAVE SPECTROSCOPY OF HETEROJUNCTION SUPERLATTICES PRINCETON UNIVERSITY	TSUI	N 36 31/03/88 \$402,285	A WITT 88-NE-134	\$129,374 15/07/88 \$403,805
NUMERICAL SIMULATION OF THE FUNCTION OF SCIENTIFIC INSTRUMENTATION FOR MEASURING THE SPEED OF ELECTRON DEVICES SCIENTIFIC RESEARCH ASSOCIATES, INC.	GRUBIN	N 24 01/04/88 \$498,281	A WITT 88-NE-136	\$249,281 01/09/88 \$498,281

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STUDY OF QUANTUM MECHANICAL EFFECTS IN DEEP SUBMICRON, GRATING GATE FIELD EFFECT TRANSISTORS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ANTONIADIS	R 36 04/04/88 8609,094	A MITT 88-NE-139	8300,000 30/09/88 8609,094
EPITAXIAL MAGNETIC OXIDES CARNEGIE-MELLON UNIVERSITY	KRYDER	N 36 10/04/88 8636,469	MITT 88-NE-147	
A THEORY OF FERROELECTRIC THIN FILMS KRYVALIS CORPORATION	KINNEY	N 36 27/04/88 8394,779	D MITT 88-NE-157	
WORKSHOP ON QUANTUM DEVICES UNIV OF ILLINOIS	STILLMAN	N 12 24/05/88 819,000	A MITT 88-NE-169	819,000 01/09/88 819,000
1988 INTERNATIONAL SYMPOSIUM ON GALLIUM ARSENIDE AND RELATED COMPOUNDS UNIV OF ILLINOIS	STILLMAN	N 12 24/05/88 812,460	A MITT 88-NE-170	812,460 01/09/88 812,460
FAULT MODELING AND TEST GENERATION FOR BEHAVIORAL DESCRIPTIONS OF DIGITAL DEVICES VIRGINIA POLYTECHNIC INST & STATE UNIV	ARMSTRONG	N 36 25/05/88 8540,962	D MITT 88-NE-173	
MULTIPLE QUANTUM WELL PHOTODETECTORS FOR LONG WAVELENGTH INFRARED DETECTION CASE WESTERN RESERVE UNIVERSITY	LEE	N 24 25/05/88 8302,544	D MITT 88-NE-175	
THEORY OF CHARGE-CARRIER TRANSPORT IN SEMICONDUCTOR CORNELL UNIVERSITY	LIDOFF	N 36 06/06/88 8346,097	D MITT 88-NE-182	
FUNDAMENTAL STUDIES OF THE MECHANICAL BEHAVIOR OF MICROELECTRONIC THIN FILM MATERIALS STANFORD UNIVERSITY	NIX	N 36 08/06/88 8457,374	MITT 88-NE-183	

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ULTRAFAST PHYSICS OF MICROSTRUCTURES CITY COLLEGE - CUNY	ALFANO	N 12 08/06/88 \$149,500	MITT 88-NE-184	
CONTINUATION OF RESEARCH ON THE CONTIGUOUS DOMAIN OSCILLATOR PURDUE RESEARCH FOUNDATION	COOPER JR	R 16 13/06/88 \$16,823	MITT 88-NE-187	
A NEW APPROACH TO DESIGN OF ELECTRONIC WARFARE MULTIPLIERERS UNIV OF ILLINOIS	CHEN	N 24 17/03/88 \$159,004	WITTMANN 88-NE-128	

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PRINCIPLES OF CORTICAL FUNCTION UNIV OF CALIFORNIA	SHAW GORDON	N 12 23/01/88 83,523	BERRY 88-NL-054	
BIOPHYSICAL AND BIOCHEMICAL MECHANISMS IN SYNAPTIC TRANSMITTER RELEASE NEW YORK UNIVERSITY MEDICAL CENTER	LLINAS RODOLFO	R 36 23/01/88 8352,608	BERRY 88-NL-055	8100,499 01/10/88 8322,608
BIOMECHANICAL MECHANISMS CONTROLLING BIORREACTIVITY OF ADRENAL CHROMAFFIN CELLS UNIV OF CALIFORNIA	VULLIET PHILIP	N 24 17/02/88 8214,807	BERRY 88-NL-066	8105,736 01/08/88 8214,607
MULTIELECTRODE SIGNAL PROCESSING MENTOR TECHNOLOGIES, INC	BELZER MITCHELL	N 06 17/03/88 867,008	BERRY 88-NL-121	
RESEARCH IN NEUROSCIENCE: DEVELOPMENT OF A CMS INDICANT OF NEURO- BIOLOGICAL FUNCTIONAL STATUS RELATED TO AGENTS, TREATMENT, & DISEASE ESSER CORPORATION	KENNEDY ROBERT	N 06 17/03/88 850,536	BERRY 88-NL-128	
NONLINEAR SIGNAL EXTRACTION PROCEDURES FOR FUNDAMENTAL NEURAL SCIENCE RESEARCH BUSINESS : TECHNOLOGICAL SYSTEMS, INC.	LARIMORE WALLACE	N 06 17/03/88 851,986	BERRY 88-NL-132	
MOLECULAR ASPECTS OF COMPENSATORY NEUROPLASTICITY IN STRESS CORIELL INSTITUTE FOR MEDICAL RESEARCH	GILAD GAD	N 36 24/03/88 8777,936	BERRY 88-NL-165	
SLEEP, ATTENTION AND LEARNING HARVARD MEDICAL SCHOOL	HOBSON J.	N 36 04/04/88 8925,628	BERRY 88-NL-197	
MEASUREMENT AND REGULATION OF CENTRAL NORADRENERGIC NEUROTRANSMISSION. NEW YORK UNIVERSITY MEDICAL CENTER	STONE ERIC	N 36 12/04/88 8659,259	BERRY 88-NL-205	

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PROTEIN PHOSPHORYLATION IN THE REGULATION OF NEURONAL SENSITIVITY COLLEGE OF STATEN ISLAND/CUNY	EMRLICH YIGAL	N 36 14/04/88 \$643,807	A BERRY 88-NL-208	\$144,140 01/07/88 \$410,653
ELECTROPHYSIOLOGICAL/BIOPHYSICAL MECHANISMS OF POST-TETANIC AND LONG-TERM POTENTIATION UNIV OF TEXAS	BITTNER GEORGE	N 36 19/04/88 \$233,990	BERRY 88-NL-214	
PARALLEL PROCESSING AND LEARNING: VARIABILITY AND CHAOS IN SELF- ORGANIZATION OF ACTIVITY IN GROUPS OF NEURONS OREGON STATE UNIVERSITY	MPITSOS GEORGE	R 36 21/04/88 \$832,047	BERRY 88-NL-215	
MEASUREMENT OF INTRACELLULAR CA2+ CHANGES ASSOCIATED WITH LONG TER M POTENTIATION AND DEPRESSION IN MAMMALIAN NEURONS AT&T TECHNOLOGIES INC	CONNOR JOHN	R 36 11/03/88 \$486,699	BERRY 88-NL-234	
CELLULAR ANALOGS OF OPERANT BEHAVIOR UNIV OF CALIFORNIA	STEIN LARRY	N 36 03/06/88 \$630,459	BERRY 88-NL-242	
GLYCINE-MIMETICS AS MODULATORS OF MEMORY UNIV OF PITTSBURGH	KOZIKOWSKI ALAN	N 36 03/06/88 \$654,407	BERRY 88-NL-243	
MECHANISMS OF PURROW FORMATION DURING CELL DIVISION NEW YORK ACADEMY OF SCIENCES	CONRAD GARY	N 12 06/06/88 \$10,000	D BERRY 88-NL-245	
EMBRYONIC ORIGINS OF DEFECTIVE HEART DEVELOPMENT NEW YORK ACADEMY OF SCIENCES	BOCKMAN DALE	N 12 06/06/88 \$10,000	D BERRY 88-NL-246	
INTERNATIONAL CONFERENCE ON PYRIDOXINE NEW YORK ACADEMY OF SCIENCES	DAKSHINAMURTI KRISHNAMURTI	N 12 09/06/88 \$10,000	D BERRY 88-NL-248	
STRUCTURE, MOLECULAR BIOLOGY AND PATHOLOGY OF COLLAGEN NEW YORK ACADEMY OF SCIENCES		N 12 29/06/88 \$10,000	D BERRY 88-NL-257	

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MICRONUTRIENT EFFECTS ON IMMUNE FUNCTION NEW YORK ACADEMY OF SCIENCES		N 12 29/06/88 \$10,000	0 BERRY 88-NL-258	
MOLECULAR ECOLOGY OF BACTERIAL POPULATIONS IN ENVIRONMENTAL HAZARDOUS CHEMICAL CONTROL UNIV OF TENNESSEE	SAYLER	N 36 16/02/88 \$433,986	CERVENY 88-NL-061	
FLOW CYTOMETRIC ANALYSIS OF HEPATOCYTES FROM NORMAL, PFOA, AND PH/DEN/PB-TREATED RATS OHIO STATE UNIVERSITY	TARR	N 12 20/02/88 \$55,000	A CERVENY 88-NL-069	\$54,984 01/05/88 \$55,000
ANAEROBIC MICROBIAL TRANSFORMATION OF AROMATIC HYDROCARBONS AND MIXTURES OF AROMATIC HYDROCARBONS AND HALOGENATED SOLVENTS STANFORD UNIVERSITY	DUNJA	N 36 14/03/88 \$295,000	A CERVENY 88-NL-085	\$96,188 01/08/88 \$295,000
MOLECULAR PROPERTIES AND FATE OF ORGANIC CHEMICALS UNIV OF WISCONSIN	ANDERS	N 36 14/03/88 \$307,270	A CERVENY 88-NL-086	\$99,355 15/08/88 \$307,270
ENVIRONMENTAL CONTAMINANT PROPERTY ESTIMATION USING QSARS IN AN EXPERT SYSTEM UTAH STATE UNIVERSITY	DOUCETTE	N 36 15/03/88 \$285,234	CERVENY 88-NL-098	
BIOAVAILABILITY OF VOLATILE ORGANICS AND OTHER HYDROCARBONS FROM ENVIRONMENTAL MEDIA: INGESTION IN DRINKING WATER GEORGIA UNIV RESEARCH FOUNDATION INC	BRUCKNER	N 36 16/03/88 \$305,735	A CERVENY 88-NL-106	\$102,150 15/08/88 \$305,735
EVALUATION OF THE EFFICACY OF THE STRESS PROTEIN RESPONSE AS A BIOCHEMICAL WATER QUALITY BIOMONITORING METHOD NORTH TEXAS STATE UNIVERSITY	DICKSON	N 24 17/03/88 \$118,446	A CERVENY 88-NL-120	\$98,301 01/08/88 \$188,446
AN AMPEROMETRIC, BIOSENSOR DETECTOR UNIVERSAL SENSORS, INC.	LUBRANO	N 06 17/03/88 \$50,000	CERVENY 88-NL-122	

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SOLID-STATE X-RAY IMAGE SCANNER FOR MEASURING BONE MINERAL DENSITY & ASSESSING SKELETAL HEALTH PERS. IDENT. & ENTRY ACCESS CNTRL, INC.	COLBERT CHARLES	N 14 17/03/88 \$51,747	CERVENY 88-NL-123	
IN VITRO SYSTEM FOR STUDYING METABOLISM OF ENVIRONMENTAL CHEMICALS IN HUMAN CELLS SRI INTERNATIONAL	GREEN CAROL	N 36 19/03/88 \$466,195	CERVENY 88-NL-146	
THE MECHANISMS & EFFECTS OF THE PLANT ACTIVATION OF CHEMICALS IN T HE ENVIRONMENT UNIV OF ILLINOIS	PLENA MICHAEL	N 36 19/03/88 \$278,831	A CERVENY 88-NL-147	\$134,345 15/09/88 \$278,831
REPROBATIC KINETICS AND TOXICITY AMONG FISH AND MAMMALS WASHINGTON STATE UNIVERSITY	MAYTON WILLIAM	N 36 21/03/88 \$283,296	A CERVENY 88-NL-160	\$145,446 15/09/88 \$289,296
INFLUENCE OF LIPID COMPOSITION IN AMPLIFYING OR AMELIORATING TOXICANT EFFECTS ON PHYTOPLANKTON UNIV OF MICHIGAN	GOAD LINDA	N 36 21/03/88 \$223,169	A CERVENY 88-NL-161	\$109,543 01/09/88 \$223,169
MOLECULAR TOXICOLOGY OF CHROMATIN SAN FRANCISCO STATE UNIV FOUNDATION INC	KUM ERNEST	N 60 23/03/88 \$3,317,658	CERVENY 88-NL-170	
DEVELOPMENT AND VALIDATION OF A FISH PHYSIOLOGICALLY-BASED PHARMACOKINETIC MODEL FOR USE IN ENVIRONMENTAL RISK ASSESSMENT EPA-ENVIRONMENTAL RESEARCH LAB	MCRAIM JAMES	N 36 05/04/88 \$300,000	CERVENY 88-NL-198	
ATTENUATION OF SUBSURFACE POLLUTANT TRANSPORT: ELECTROSTATIC CONTRIBUTIONS EPA-ENVIRONMENTAL RESEARCH LAB	LOUX NICHOLAS	N 36 29/04/88 \$296,600	D CERVENY 88-NL-216	
INTERACTION BETWEEN ENVIRONMENTAL TOXICANTS, G.I. MICROFLORA, G.I. ENZYME ACTIVITY AND CHEMICAL CARCINOGENESIS ENVIRONMENTAL PROTECTION AGENCY	CHADWICK ROBERT	N 36 02/05/88 \$182,100	A CERVENY 88-NL-217	\$30,350 01/08/88 \$182,100
THE MECHANISM OF TRICHLOROETHYLENE OXIDATION BY TOLUENE DIOXYGENASE & IMPLICATIONS FOR BIODEGRADATION GRAY FRESHWATER BIOLOGICAL INSTITUTE	WACKETT LAWRENCE	N 36 02/05/88 \$299,006	CERVENY 88-NL-218	

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ECLTOXICOLOGIC FATE AND EFFECTS OF CRITICAL CHEMICALS BOYCE THOMPSON INSTITUTE AT CORNELL UNIV	MCCUNE DELBERT	N 36 02/05/88 \$460,407	D CERVENY 88-NL-219	
METABOLISM, PHARMACOKINETICS & IMMUNOTOXICOLOGY OF HEPTACHLOR, HEPTACHLOR EPOXIDE & DI (CETHYL METHYL) PHTHALATE IN PRIMATES NASA-PRIMATE RESEARCH INSTITUTE	COUCH RONALD	N 36 02/05/88 \$299,806	D CERVENY 88-NL-220	
FATE OF JET FUEL AND CHLORINATED CHEMICALS IN THE SUBSURFACE ENVIRONMENT CCA BIOREMEDIATION SYSTEMS DIVISION	FOGEL SAM	N 36 02/05/88 \$235,456	D CERVENY 88-NL-221	
DEVELOPMENT OF AN ISOLATED FISH HEPATOCYTE MODEL FOR THE INVESTIGATION OF THE TOXICITY OF ENVIRONMENTAL CONTAMINANTS ENVIRONMENTAL PROTECTION AGENCY	BAKSI SANDRA	N 36 02/05/88 \$221,834	D CERVENY 88-NL-222	
ANALYTICAL COMPENDIUM OF TOXICOLOGICAL AND ENVIRONMENTAL FATE DATA FOR CHEMICALS OF INTEREST TO THE U.S. AIR FORCE MSI DETOXIFICATION INC.	MAUSEN EUGENE	N 36 02/05/88 \$165,629	D CERVENY 88-NL-223	
PROPOSAL TO DEVELOP METHODOLOGY FOR INTERSPECIES EXTRAPOLATION E C JORDON COMPANY	MAGEE BRIAN	N 36 02/05/88 \$237,498	D CERVENY 88-NL-224	
VAPOR PHASE PHOTOLYSIS OF MEDIUM WEIGHT ORGANIC COMPOUNDS UNIV OF NEVADA	MILLER GLENN	N 36 02/05/88 \$276,532	D CERVENY 88-NL-225	
INVERTEBRATE IMMUNOTOXICOLOGY: A NOVEL APPROACH TO QUANTIFYING BIOLOGICAL EFFECTS OF XENOBIOTICS UNIV OF MARYLAND	ANDERSON ROBERT	N 36 02/05/88 \$284,419	D CERVENY 88-NL-226	
THE INTERRELATIONSHIPS AMONG SEDIMENTS, WATER AND BIOTA IN AQUATIC SEDIMENTS IMPACTED BY TOXIC TRACE ELEMENTS FROM AIR OPERATIONS ACADEMY OF NATURAL SCIENCES	RIEDEL GERHARDT	N 48 02/05/88 \$528,141	D CERVENY 88-NL-227	

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FACTORS AFFECTING THE DEGRADATION OF POLYCYCLIC AROMATIC HYDROCARB ONS ECOVA CORPORATION	MAJAFEEY WILLIAM	N 24 02/05/88 \$191,703	D CERVENY 88-NL-228	
THE USE OF PLANT POLLEN AND FLOW CYTOMETRY IN EVALUATION OF ENVIRO NMENTAL POLLUTION UNIV OF MISSOURI	CALDWELL CHARLES	N 36 02/05/88 \$303,057	D CERVENY 88-NL-229	
THE KEY INVOLVEMENT OF POLYCAOP-RIBOSYLATION) IN DEFENSE AGAINST TOXIC AGENTS: MOLECULAR BIOLOGY STUDIES GEORGETOWN UNIVERSITY	SMULSON MARK	R 36 10/05/88 \$103,551	CERVENY 88-NL-233	
AN INTEGRATED ASSESSMENT OF THE LONG TERM, CHRONIC EFFECTS OF A PO LYCYCLIC AROMATIC HYDROCARBON (FLUORANTHENE) ON THE MURICHO (FUND MIAMI UNIVERSITY	GUTTMAN SHELDON	N 36 03/06/88 \$298,702	CERVENY 88-NL-244	
A NEW SCIENTIFIC INSTRUMENT FOR BIOGENETIC TOXICITY TESTING NORTH STAR RESEARCH, INC.	BENJAMINSON M.	N 24 08/06/88 \$591,061	CERVENY 88-NL-247	
STRUCTURE-ACTIVITY INTERACTIONS OF SOIL COMPONENTS WITH MALOGLIMATE D AROMATICS AND PETROLEUM HYDROCARBONS UNIV OF MICHIGAN	SIMMONS MILAGROS	N 36 29/06/88 \$299,097	CERVENY 88-NL-251	
INVERTERATE/SULFUR BACTERIA SYMBIOSES: MECHANISTIC ANALYSIS OF C HEMAUTOTROPHY USING I'OLATED BACTERIOCYTES UNIV OF COLORADO	ANDERSON AMY	N 24 29/06/88 \$189,016	CERVENY 88-NL-252	
QUANTITATIVE STRUCTURE-ACTIVITY RELATIONSHIPS OF CHLORINATED ALICY CLIC COMPOUNDS MISSISSIPPI STATE UNIVERSITY	CHAMBERS JANICE	N 36 29/06/88 \$479,796	CERVENY 88-NL-254	
TOXICOLOGY OF PERFLUORODECANGIC ACID UNIV OF WISCONSIN	PETERSON RICHARD	R 48 29/06/88 \$946,231	CERVENY 88-NL-256	
THE ROLE OF CHEMICAL INHIBITION OF GAP-JUNCTIONAL INTERCELLULAR COMMUNICATION IN TOXICOLOGY MICHIGAN STATE UNIVERSITY	TROSKO JAMES	R 36 29/06/88 \$783,810	CERVENY 88-NL-259	

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RESEARCH COLLABORATIONS BETWEEN MSD AND TEXAS SCIENTISTS				
AEROSPACE MEDICAL DIVISION	CULLEN	N 12 06/01/88 \$35,000	A DISMURES 88-NL-046	\$35,000 05/01/88 \$35,000
OPERATIONAL TOURS FOR SET PERSONNEL				
AEROSPACE MEDICAL DIVISION	CANTU	M 12 07/01/88 \$8,000	A DISMURES 88-NL-047	\$8,000 07/01/88 \$8,000
XXIV INTERNATIONAL CONGRESS OF PSYCHOLOGY				
AMERICAN PSYCHOLOGICAL ASSOCIATION INC	GOODSTEIN	N 12 20/01/88 \$5,000	A FREGLY 88-NL-048	\$5,000 01/02/88 \$5,000
EFFECTS OF ALTITUDE ON METALOGNITION AND ON THE RETRIEVAL OF INFORMATION FROM MEMORY AT MOUNT EVEREST UNIV OF WASHINGTON	NELSON	N 07 27/01/88 \$27,274	A FREGLY 88-NL-057	\$27,274 13/03/88 \$27,274
EVALUATION OF LIFE SCIENCES RESEARCH PROGRAM				
COMPENSABLE SOLICITATION	IDENTIFIED	N 36 08/02/88 \$947,342	A FREGLY 88-NL-060	\$947,342 24/09/88 \$947,342
NEUROCOGNITIVE PATTERN ANALYSIS SYSTEM				
SAM TECHNOLOGY, INC.	MORGAN	N 06 17/03/88 \$49,910	FREGLY 88-NL-127	
PSYCHO-PHYSIOLOGICAL PERFORMANCE FEEDBACK ANALYZER (P3PA)				
BA DYNAMICS, INC	MATKINS	N 06 17/03/88 \$50,000	FREGLY 88-NL-133	
BREAKING THE LANGUAGE CODE				
ALAN S. PIKE	PIKE	N 06 17/03/88 \$71,280	FREGLY 88-NL-134	
NONLINEAR PREDICTION OF EVOKED RESPONSE FROM PRESTIMULUS EEG DATA				
CHIRP CORPORATION	ALTES	N 06 17/03/88 \$49,997	FREGLY 88-NL-135	

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OPERATIONAL DECISION TRAINING KLEIN ASSOCIATES, INC.	KLEIN GARY	N 06 17/03/88 \$59,954	FREGLY 88-NL-136	
A KNOWLEDGE STRUCTURE APPROACH TO LEARNING AND TEACHING DECISION SCIENCE CONSORTIUM INC	LEDDO JOHN	N 06 18/03/88 \$59,991	FREGLY 88-NL-137	
ONTOLOGICAL INVESTIGATION INTO THE STATUS OF MENTAL MODELS SEARCH TECHNOLOGY, INC.	ROUSE WILLIAM	N 06 18/03/88 \$49,603	FREGLY 88-NL-138	
COGNITIVE STYLE AS A PREDICTOR TO SUCCESSFUL PERFORMANCE PROGRESSIVE LEARNING SYSTEMS	BASS MICHAEL	N 06 18/03/88 \$49,985	FREGLY 88-NL-139	
HANDWRITING ANALYSIS INDICATORS FOR THE DETERMINATION OF INNATE COGNITIVE ABILITIES IMPERIAL CONS. & ENGR. CO., INC.	ROGERS CYNTHIA	N 06 18/03/88 \$49,954	FREGLY 88-NL-140	
RETRIEVAL PROCESSING IN MEMORY NORTHWESTERN UNIVERSITY	RATCLIFF ROGER	N 60 04/04/88 \$848,333	FREGLY 88-NL-196	
ENERGETIC DIMENSIONS OF HUMAN RESOURCES: RELATIONSHIP BETWEEN ARO USAL MECHANISMS AND INFORMATION PROCESSING TECHNION-ISRAEL INST OF TECHNOLOGY	LAVIE PERETZ	N 36 10/05/88 \$214,619	FREGLY 88-NL-231	
SCHEMA-BASED THEORIES OF PROBLEM SOLVING SAN DIEGO STATE UNIVERSITY	REED STEPHEN	N 24 11/05/88 \$106,041	A FREGLY 88-NL-236	\$48,222 01/11/88 \$106,041
MEASURES OF SUBJECTIVE VARIABLES IN VISUAL COGNITION UNIV OF ARIZONA	PETERSON MARY	N 24 31/05/88 \$85,070	A FREGLY 88-NL-240	\$42,510 01/08/88 \$42,510
STUDIES OF PERCEPTUAL MEMORY UNIV OF UTAH	JOHNSTON WILLIAM	N 60 29/06/88 \$444,599	FREGLY 88-NL-255	

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PSYCHOPHYSICAL STUDIES OF VISUAL CORTICAL FUNCTION				
SMITH-KETTLEWELL EYE RESEARCH FOUNDATION	NAKAYAMA	N 36 23/01/88 \$624,679	A TANGNEY 88-NL-051	8200,500 01/09/88 \$612,900
AUDITORY PERCEPTION				
UNIV OF CONNECTICUT	COMEN	N 60 23/01/88 \$285,347	A TANGNEY 88-NL-052	879,586 01/09/88 \$207,586
VISUAL PROCESSING IN TEXTURE SEGREGATION				
UNIV OF OREGON	BECK	R 36 23/01/88 \$618,312	A TANGNEY 88-NL-053	897,193 01/09/88 \$230,093
REAL AND APPARENT SPATIAL DISTORTIONS IN VISUAL PATTERNS				
STATE UNIVERSITY OF NEW YORK	DAVIS	N 60 23/01/88 \$527,515	TANGNEY 88-NL-056	
PERIPHERAL LIMITATIONS ON SPATIAL VISION				
UNIV OF ROCHESTER	WILLIAMS	R 36 03/02/88 \$351,110	A TANGNEY 88-NL-058	883,300 01/08/88 \$341,300
INSTITUTE FOR THE STUDY OF HUMAN CAPABILITIES				
INDIANA UNIVERSITY FOUNDATION	WATSON	N 24 03/02/88 \$1,010,000	A TANGNEY 88-NL-059	9504,840 01/06/88 \$1,004,840
SPATIAL SELECTIVITY IN VISUAL CORTICES				
UNIV OF MASS MEDICAL CENTER	POLLEN	N 60 16/02/88 \$1,232,115	TANGNEY 88-NL-064	
THE VISUAL PERCEPTION OF STRUCTURE FROM MOTION				
BOSTON UNIVERSITY	TODD	N 36 16/02/88 \$288,087	A TANGNEY 88-NL-065	987,700 01/03/88 \$271,400
SIGNAL PROCESSING AND RECOGNITION IN ADAPTIVE NEURAL NETWORKS				
UNIVERSITY OF MARYLAND	SHAMMA	N 36 19/02/88 \$425,964	A TANGNEY 88-NL-068	9103,660 01/08/88 \$331,387

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FUNCTIONAL ROLE OF VESTIBULO-OCULAR REFLEX ADAPTATION				
SMITH-KETTLEWELL EYE RESEARCH FOUNDATION	SHERMAN	N 05 24/02/88 8692,943	TANGNEY 88-NL-071	
VISUAL PROCESSING OF OBJECT VELOCITY AND ACCELERATION				
SMITH-KETTLEWELL EYE RESEARCH FOUNDATION	MCKEE	R 36 24/02/88 8507,587	TANGNEY 88-NL-073	
COORDINATED NONINVASIVE STUDIES (CNS) PROJECT				
UNIV OF ARIZONA	LAUTER	R 60 24/02/88 92,432,070	A TANGNEY 88-NL-075	8145,700 01/09/88 8403,600
COMPLEX AUDITORY SIGNALS				
UNIV OF FLORIDA	GREEN	R 36 29/02/88 8561,511	A TANGNEY 88-NL-076	8170,000 30/09/88 8528,000
USING THE SENTENCE VERIFICATION TECHNIQUES				
UNIV OF MASSACHUSETTS	ROYER	R 12 02/03/88 819,193	TANGNEY 88-NL-078	
RECEPTORAL AND NEURAL ALIASING				
UNIV OF NEW HAMPSHIRE	SMITH	N 36 03/03/88 8540,397	A TANGNEY 88-NL-082	8137,200 01/09/88 8325,569
DEPENDENCE OF DYNAMIC VISUAL ACUITY ON GAZE STABILITY				
MONTEREY TECHNOLOGIES, INC.	MENNESSY	N 06 17/03/88 840,002	TANGNEY 88-NL-124	
A COMPUTERIZED TEST BATTERY FOR IDENTIFYING INDIVIDUAL DIFFERENCES IN COGNITIVE ABILITY				
ESSEX CORPORATION	KENNEDY	N 06 17/03/88 852,136	TANGNEY 88-NL-125	
VISUAL ACCOMMODATION AS DEPENDENT & INDEPENDENT VARIABLE INSIDE AND OUTSIDE THE COCKPIT				
ESSEX CORPORATION	KENNEDY	N 06 17/03/88 851,756	TANGNEY 88-NL-126	
PROCESSING AND ADAPTING UNFAMILIAR VISUAL MOTION INFORMATION				
SMALL BUSINESS VENDOR	ODLEZAL	N 06 17/03/88 850,000	TANGNEY 88-NL-129	

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INFORMATION PROCESSING BY THE PERIPHERAL VISUAL SYSTEM SMALL BUSINESS VENDOR	DOLEZAL	N 06 17/03/88 830,000	TANGNEY 88-NL-130	
EXTRARETINAL NEUROBIOLOGY OF LIGHT PAPYRUS SYSTEMS INC.	SEMANOV	N 06 17/03/88 849,918	TANGNEY 88-NL-131	
PATTERN DISCRIMINATION IN HUMAN VISION YALE UNIVERSITY SCHOOL OF MEDICINE	MIRSCH	R 36 24/03/88 81,129,635	TANGNEY 88-NL-167	
AUDITORY PROCESSING OF COMPLEX SOUNDS ACROSS FREQUENCY CHANNELS LOYOLA UNIVERSITY	SHOFER	N 36 25/03/88 8284,333	TANGNEY 88-NL-169	
MONAURAL AND BINAURAL PROCESSING OF COMPLEX WAVEFORMS UNIV OF CONNECTICUT HEALTH CENTER	TRANIOTIS	N 36 04/04/88 8416,131	TANGNEY 88-NL-195	
MECHANISMS OF MOTION PERCEPTION: INTERGRATION OF DIRECTION, VELOCITY AND SPACE NORTHWESTERN UNIVERSITY	SEARLER	R 36 12/04/88 8698,448	TANGNEY 88-NL-206	
5TH INTERNATIONAL CONGRESS ON NOISE AS A PUBLIC HEALTH PROBLEM EUROPEAN OFFICE OF AERD RSCH AND DEVELOP	MCDUGAL	N 06 13/04/88 820,000	A TANGNEY 88-NL-207	820,000 01/05/88 820,000
ADAPTIVE CONTROL OF VISUALLY GUIDED GRASPING IN NEURAL NETWORKS NEUROGEN	KUPENSTEIN	N 24 15/04/88 8198,000	TANGNEY 88-NL-209	
LISTENING TO THE EAR SIGNITION, INC.	ZWEIG	N 42 15/04/88 849,700	TANGNEY 88-NL-210	

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CURVATURE ESTIMATION IN ORIENTATION SELECTION
MCGILL UNIVERSITY

AUDITORY PATTERN MEMORY
UNIV OF FLORIDA

WORKSHOP IN COMPUTATIONAL NEUROSCIENCE
MARINE BIOLOGICAL LABORATORY

NEURONAL MULTIPLEXING
NATIONAL INSTITUTE OF HEALTH

SPATIO-TEMPORAL MASKING: HYPERACUITY AND LOCAL ADAPTATION
UNIV OF CALIFORNIA

ABILITY AND METACOGNITIVE DETERMINANTS OF SKILL ACQUISITION AND
TRANSFER
UNIV OF MINNESOTA

DETECTION AND CONSTRUCTION OF VISUAL FORM
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NEUROPSYCHOLOGY OF BIRDSONG PERCEPTION
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N 18 10/05/88 8144,210	TANGNEY 88-NL-230	
N 36 10/05/88 8307,587	TANGNEY 88-NL-232	
R 24 17/05/88 8127,693	A TANGNEY 88-NL-237	863,591 01/09/88 8127,693
N 12 25/05/88 820,000	A TANGNEY 88-NL-238	820,000 01/08/88 820,000
N 3 26/05/88 8160,000	A TANGNEY 88-NL-239	880,000 01/07/88 880,000
N 36 31/05/88 8590,087	TANGNEY 88-NL-241	
N 10 28/06/88 819,996	TANGNEY 88-NL-249	
N 36 28/06/88 8453,333	TANGNEY 88-NL-250	
N 60 29/06/88 9597,518	TANGNEY 88-NL-253	

RICHARD

ALTES

ZUCKER

STEVEN

SORRIN

ROBERT

EPSTEIN

RAY

RICHMOND

BARRY

KLEIN

STANLEY

KANFER

RUTH

STEVENS

KENT

CYNK

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NONLINEAR SUBSTRUCTURE AEROMECHANICS ANALYSIS KATYE JOHNSON	JOHNSON WAYNE	N 06 05/01/88 \$41,493	CROWLEY 88-NM-165	
CRAY II SUPPORT FOR OTHER 2304/A3 INSTRUMENTS AIR FORCE WEAPONS LAB	BURNETTE HOWARD	N 08 21/01/88 \$10,000	A CROWLEY 88-NM-188	\$10,000 01/02/88 \$10,000
PRACTICAL METHODS FOR ROBUST MULTIVARIABLE CONTROL UNIV OF SOUTHERN CALIFORNIA	SAFONOV MICHAEL	R 12 27/01/88 \$125,763	A CROWLEY 88-NM-190	\$90,701 15/07/88 \$90,701
ADAPTIVE & NONLINEAR CONTROL WASHINGTON UNIVERSITY	BYRNES CHRISTOPHER	N 36 27/01/88 \$234,652	A CROWLEY 88-NM-191	\$72,502 15/08/88 \$234,652
MATHEMATICAL TECHNIQUES FOR SYSTEM REALIZATION AND IDENTIFICATION UNIV OF FLORIDA	KALMAN R.E.	R 12 27/01/88 \$84,567	A CROWLEY 88-NM-198	\$58,577 15/05/88 \$58,577
COMPUTATIONAL ALGORITHMS FOR IDENTIFICATION WITH INPUT OPTIMIZATION UNIV OF ARKANSAS	BREWER DENNIS	N 24 27/01/88 \$115,137	CROWLEY 88-NM-206	
RESEARCH ON ALGORITHMS FOR PERSONAL MULTIPROCESSORS SCIENTIFIC SYSTEMS INC.	LESTER BRUCE	N 06 29/01/88 \$59,519	CROWLEY 88-NM-214	
PRIOR KNOWLEDGE IN IMAGE PROCESSING SCIENTIFIC SYSTEMS INC.	GUSTAFSON DONALD	N 06 29/01/88 \$59,499	CROWLEY 88-NM-215	
THE APPLICATION OF ADVANCED ALGEBRA TECHNIQUES TO SUPERCOMPUTERS ADVANCED TECHNOLOGY LABORATORIES	JENNINGS JACK	N 24 29/01/88 \$49,742	CROWLEY 88-NM-216	

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ERROR DETECTION, DIAGNOSIS, AND CORRECTION ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	N 06 29/01/88 \$49,742	CROWLEY 88-NM-217	
THE DYNAMIC ANALOG CODING OF MODERN ALGEBRA PROBLEMS ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	N 06 29/01/88 \$49,742	CROWLEY 88-NM-218	
CYBERTALK ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	N 06 29/01/88 \$49,742	CROWLEY 88-NM-219	
A GENERALIZED APPROACH TO THE APPLICATION OF PARALLEL PROCESSING TO PROBLEMS OF MODERN ALGEBRA ADVANCED TECHNOLOGY LABORATORIES	MUHL JR.	N 06 29/01/88 \$49,742	CROWLEY 88-NM-220	
AN APPROACH TO COMPUTER ARCHITECTURE FOR PARALLEL PROCESSING ADVANCED TECHNOLOGY LABORATORIES	MUHL JR	N 06 29/01/88 \$49,742	CROWLEY 88-NM-221	
INTEGRATING NUMERICAL SOFTWARE LIBRARIES WITH AN INTERACTIVE SCIENTIFIC COMPUTING ENVIRONMENT SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER	N 06 29/01/88 \$50,020	CROWLEY 88-NM-222	
DEVELOPING AN OUT-OF-CORE IMPLEMENTATION OF A CONJUGATE GRADIENT METHOD SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER	N 06 29/01/88 \$50,005	CROWLEY 88-NM-223	
EMPLOYING SPARSE SOLUTION TECHNOLOGY WITHIN AN INTERACTIVE SCIENTIFIC COMPUTING ENVIRONMENT SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER	N 06 29/01/88 \$50,020	CROWLEY 88-NM-224	
FAST ALGORITHMS FOR CONTROL PROCESS ROBOTICS SPACE TECH CORPORATION	ANDREWS	N 06 29/01/88 \$49,750	CROWLEY 88-NM-225	
MATHEMATICAL MODELLING OF MATERIAL DAMPING IN LARGE SPACE STRUCTURES SPARTA INC.	LEISIEUTRE	N 06 29/01/88 \$49,995	CROWLEY 88-NM-226	

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ADAPTIVE NETWORK TECHNOLOGY FOR COUPLING SYSTEM EFFECTOR CONTROL Y O SYSTEM SENSOR INPUTS SYSTRAN CORPORATION	CAMPBELL	N 06 29/01/88 853,141	CROWLEY 88-NM-227	
SYNTHETIC CALCULUS INDUCTIVE LEARNING LANGUAGES				
INT'L META SYSTEMS INC.	THAMES	N 06 29/01/88 851,767	CROWLEY 88-NM-228	
AUTOMATIC FINITE ELEMENT MESH GENERATION COMPUTER PERFECTION UNLIMITED (CPU)	WEISINGER	N 06 29/01/88 849,985	CROWLEY 88-NM-229	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE SM SYSTEMS & RESEARCH CORPORATION	HERSH	N 06 29/01/88 849,870	CROWLEY 88-NM-230	
REAL-TIME EDGE/FEATURE DETECTURE THROUGH STOCHASTIC OPTIMIZATION D F IMAGING SYSTEMS INFORMATION & CONTROL SYSTEMS INC.	HALYO	N 06 29/01/88 855,955	CROWLEY 88-NM-231	
SYNTHETIC CALCULUS OPTIMIZATION RESEARCH ENVIRONMENT INT'L META SYSTEMS INC.	THAMES	N 06 29/01/88 851,767	CROWLEY 88-NM-232	
DECOMPOSITION OF LARGE SCALE MATHEMATICAL PROGRAMMING PROBLEMS THR OUGH THE APPLICATION OF THE INTERACTION BALANCE PRINCIPLE SYSTEMS APPLICATION INC.	MONMANTY	N 06 29/01/88 849,512	CROWLEY 88-NM-233	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES PLEX SYSTEMS INC.	COLEMAN	N 06 29/01/88 859,200	CROWLEY 88-NM-234	
RELATIVE ENTROPY APPLIED TO IMAGE PROCESSING ENTROPIC SPEECH INC.	SHORE	N 06 29/01/88 849,945	CROWLEY 88-NM-235	

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NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS GENERAL ANALYTICS CORPORATION	SARAFYAN O.	N 06 29/01/88 \$50,000	CROWLEY 88-NM-236	
ARTIFICIAL NEURAL SYSTEM FOR OPTIMAL MODELLING/CONTROL MNC, UBC (HECHT-WIESEN NEUROCOMPUTER)	PALMER DOUGLAS	N 06 29/01/88 \$51,275	CROWLEY 88-NM-237	
IMPROVEMENTS IN AUTOMATIC PARALLELIZATION TECHNOLOGY NEW JERSEY ADVANCED TECHNOLOGY	KLAPPHOLZ AARON	N 06 29/01/88 \$46,972	CROWLEY 88-NM-238	
SYNTHETIC CALCULUS ALGORITHMIC LEARNING ENGINES INT'L META SYSTEMS INC.	THAMES JOSEPH	N 06 29/01/88 \$51,767	CROWLEY 88-NM-239	
SYNTHETIC CALCULUS ARRAY NODE DIFFERENTIAL EMULATION INT'L META SYSTEMS INC.	THAMES JOSEPH	N 06 29/01/88 \$51,767	CROWLEY 88-NM-240	
LEARNING LAWS ARTIFICIAL NEURAL NETWORKS MARTINGALE RESEARCH CORPORATION	DAMES ROBERT	N 06 29/01/88 \$55,621	CROWLEY 88-NM-241	
PROPAGATIONAL WAVE EQUATION IN MILBERT SPACE MARTINGALE RESEARCH CORPORATION	DAMES ROBERT	N 06 29/01/88 \$53,277	CROWLEY 88-NM-242	
MATHEMATICAL MODELS OF COMPLEX LASER BEAM FOCUSING JOSEPH TECHNOLOGY CORPORATION	OLIVER V.	N 06 29/01/88 \$56,445	CROWLEY 88-NM-243	
RE-ENTRY VEHICLE STATE ESTIMATION USING QUADRATIC FILTERING TECHNIQUE TECHNOLOGY SYSTEMS, INC.	PARUJI FARHAN	N 06 29/01/88 \$50,000	CROWLEY 88-NM-244	
FRANES TELEPHOS ASSOCIATED	KRITIKOS MARALAMBOUS	N 06 29/01/88 \$50,000	CROWLEY 88-NM-245	

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SYNTHETIC CALCULUS ADVANCED NEURAL NETWORK	THAMES	N 06 29/01/88 851,767	CROWLEY 88-NM-246	
INT'L META SYSTEMS INC.	JOSEPH			
QUATERNION ALGORITHMS FOR ROTATION PROBLEMS IN SPACE	SINGH	N 06 29/01/88 849,868	CROWLEY 88-NM-248	
WADDAN SYSTEMS	MAHENDRA			
DIGITALLY BASED WORKSTATION FOR PERFORMING HIGHLY ACCURATE MEASURE MENTS ON LARGE ANALOG FILM IMAGERY	LEBERI F.	N 06 29/01/88 849,950	CROWLEY 88-NM-249	
VERCEL CORPORATION				
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE	VIDE	N 06 29/01/88 849,061	CROWLEY 88-NM-250	
COMPUTER & INFORMATION SCIENCES, INC.	JOSEPH			
RESEARCH IN COMPUTER SCIENCE		N 06 01/02/88 847,476	CROWLEY 88-NM-251	
SOPTRON, INC	GENDRON			
A NEW EXPERT SYSTEM-CASE BASED METHODOLOGY FOR REUSABLE SOFTWARE	DAVIO	N 06 01/02/88 849,390	CROWLEY 88-NM-252	
CONCEPT TECHNOLOGY	BESSEL			
SIMULATION METHODS FOR PARALLEL DISTRIBUTED PROCESSOR NETWORKS	DAVIO	N 06 01/02/88 854,820	CROWLEY 88-NM-253	
MARTINGALE RESEARCH CORPORATION	ROBERT			
INNOVATIVE STORAGE METHODS AND ITERATIVE SOLUTION TECHNIQUES FOR T HE FINITE ELEMENT METHOD	JAY	N 06 01/02/88 849,308	CROWLEY 88-NM-254	
MAINSTREAM ENGINEERING CORPORATION	BUCKMAN			
PROBLEM ORIENTED CONSTRAINT DIRECTED SIMULATION SYNTHESIS	ZEMANY	N 06 01/02/88 842,485	CROWLEY 88-NM-255	
MYESON (HELEN) CHU ZEMANY	PAUL			

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A KNOWLEDGE BASED EXPERT SYSTEM FOR SOFTWARE ENGINEERING MY BUSINESS INC.	YEE	N 06 01/02/88 \$50,776	CROWLEY 88-MM-256	
DEMONSTRATION OF ARRAY PIPELINE TLA RESEARCH INC.	CLARKE	N 06 01/02/88 \$49,827	CROWLEY 88-MM-257	
NONLINEAR CONTROL OF HIGH ANGLE ATTACK FLIGHT DYNAMICS BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	CARROLL	N 06 01/02/88 \$51,607	CROWLEY 88-MM-258	
NEURAL NETWORK RESEARCH FOR TRACK-WHILE-SCAN RADAR FACC PERCEPTRONICS, INC.	EMALSA	N 06 01/02/88 \$49,626	CROWLEY 88-MM-260	
FINITE MEMORY TRACKING AND FILTERING ALGORITHM FACC PERCEPTRONICS, INC.	BANNEYT	N 06 01/02/88 \$49,672	CROWLEY 88-MM-261	
SOFTWARE REUSE MANAGER CALIFORNIA ADVANCED INTEGRATION	KAHN	N 06 01/02/88 \$49,994	CROWLEY 88-MM-262	
A COMPUTER SYSTEM TO IMPROVE THE EFFICIENCY AND TO OPTIMIZE ADA SC IDENTIFIC AND ENGINEERING CODE APPLIED INNOVATION, INC.	DAVISON	N 06 01/02/88 \$48,566	CROWLEY 88-MM-263	
DEVELOPMENT OF NEURAL NETWORK SUPERCOMPUTER FOR IMAGE REPRESENTATI ON AND FEATURE EXTRACTION IMAGE CONVERSION DEVICES	BROOKES	N 06 01/02/88 \$50,000	CROWLEY 88-MM-265	
INVESTIGATION OF ORDER "N" ALGORITHMS FOR MULTIBODY DYNAMICS SIMUL ATION PHILIN RESEARCH ASSOCIATES INC.	KEAT	N 06 12/02/88 \$49,615	CROWLEY 88-MM-279	
PERFORMANCE ANALYSIS FOR THE RECOGNITION OF TARGETS CALIFORNIA ADVANCED INTEGRATION	WEBSTER	N 06 12/02/88 \$54,152	CROWLEY 88-MM-280	

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RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE IMAGE PROCESSING FOR CM FM RADAR SSDD RESEARCH CORPORATION	WOJCIECH KLIMKIEWICZ	N 06 12/02/88 843,155	CROWLEY 88-NM-281	
VLSI/ASIC ARCHITECTURE FOR NONLINEAR EQUATION SOLVER IN REAL-TIME MILITARY APPLICATIONS DEVICE RESEARCH INSTITUTE	WANG CHENG	N 06 12/02/88 897,693	CROWLEY 88-NM-282	
AN INTEGRATED CONCEPT FOR SCHEDULING TRANSPORTATION NETWORKS COMPUTER AIDED PLAN & SCHEDULE INC.	LOGGREN CHRISTOPHER	N 06 12/02/88 890,000	CROWLEY 88-NM-283	
ROBUST AND ADAPTIVE CONTROL OF DYNAMICAL SYSTEMS INTEGRATED SYSTEMS, INC.	KOSUT ROBERT	N 06 12/02/88 879,205	CROWLEY 88-NM-284	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE NELSON ASSOCIATES	NELSON NORMAN	N 06 12/02/88 822,500	CROWLEY 88-NM-285	
AN INTELLIGENT MATHEMATICAL MODELLING SYSTEM-MATHMODEL COMPUTER COMMAND & CONTROL COMPANY	LOCK EVAN	N 06 12/02/88 850,000	CROWLEY 88-NM-286	850,000 01/08/88 850,000
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: A UNIFIED STATISTICAL METHODOLOGY FOR REASONING ABOUT IMAGES DECISION SCIENCE CONSORTIUM INC	LASKEY KATHRYN	N 06 12/02/88 861,681	CROWLEY 88-NM-287	
ADAPTIVE KNOWLEDGE-BASED NETWORK ADVANCED DECISION SYSTEMS	GESAND PATRICE	N 06 12/02/88 849,977	CROWLEY 88-NM-288	
A KNOWLEDGE-BASED SYSTEM FOR DYNAMIC MODEL VERIFICATION INTELLIGENT SYSTEMS INTEGRATION INC.	ROSS TIMOTHY	N 06 12/02/88 897,366	CROWLEY 88-NM-289	

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RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE VISTA RESEARCH CORPORATION	CALDWELL J.	N 06 19/02/88 950,000	CROWLEY 88-NM-291	
DESIGN AND IMPLEMENTATION OF HIGH PRECISION AND HIGH PERFORMANCE P PARALLEL SOFTWARE AND HARDWARE - PHASE II ARITHMETIKA, INC	CHUDNOVSKY DAVID	N 12 26/02/88 9500,000	CROWLEY 88-NM-296	
INCREASING THE MARGIN OF STABILITY OF ARBITRARILY FINITE MODES OF FLEXIBLE LARGE SPACE STRUCTURES WITH DAMPING UNIV OF VIRGINIA	IRENA LASTECKA	R 12 26/02/88 9134,596	A CROWLEY 88-NM-299	9116,500 01/09/88 9116,500
PARAMETER IDENTIFICATION ON TIME DELAY SYSTEMS BROWN UNIVERSITY	PEARSON ALLAN	N 36 26/02/88 897,000	CROWLEY 88-NM-301	
SINGULAR AND BANG-BANG STOCHASTIC CONTROL CARNEGIE-MELLON UNIVERSITY	SHREVE STEVEN	R 36 26/02/88 9242,660	CROWLEY 88-NM-302	
ON OBSERVABILITY OF SYSTEMS WITH COMPLICATED DYNAMICS ARIZONA STATE UNIVERSITY	S. TAYLOR THOMAS	N 24 26/02/88 882,755	A CROWLEY 88-NM-303	915,077 15/07/88 930,927
STABILITY AND CONTROL OF NONLINEAR SYSTEMS TEXAS TECH UNIVERSITY	MARTIN CLYDE	N 36 26/02/88 9416,334	CROWLEY 88-NM-304	
GPUS: OPTIMAL PROJECTION FOR UNCERTAIN SYSTEMS HARRIS CORPORATION	BERNSTEIN DENNIS	R 36 29/02/88 9289,910	CROWLEY 88-NM-315	
NONLINEAR FEEDBACK-CONTROL SYSTEMS UNIV OF FLORIDA	HAMMER JACOB	N 60 29/02/88 9210,368	CROWLEY 88-NM-318	
LINEAR CONTROLLER DESIGN VIA INFINITE DIMENSIONAL CONVEX OPTIMIZATION & SPECIAL PURPOSE ARCHITECTURES FOR LINEAR CONTROLLERS STANFORD UNIVERSITY	BOYD STEPHEN	N 24 18/03/88 9298,468	CROWLEY 88-NM-343	

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ANALYTICAL, COMPUTATIONAL AND EXPERIMENTAL STUDIES OF DISTRIBUTED
PARAMETER AND NONLINEAR CONTROL SYSTEMS
VIRGINIA POLYTECHNIC INST & STATE UNIV

INVESTIGATOR
RUSSELL

MONOTOPY METHODS IN CONTROL SYSTEM ANALYSIS AND DESIGN

MARR'S CORPORATION

INVESTIGATOR
RICHTER

MONOTOPY METHODS IN CONTROL SYSTEM DESIGN AND ANALYSIS

VIRGINIA POLYTECHNIC INST & STATE UNIV

INVESTIGATOR
WATSON

ANALYSIS AND DESIGN OF MULTIMODE CONTROL SYSTEMS

RENSSELAER POLYTECHNIC INSTITUTE

INVESTIGATOR
CMON

COMPUTATIONAL METHODS FOR MODELING AND ACTIVE CONTROL OF DISTRIBUTED
PARAMETER SYSTEMS

VIRGINIA POLYTECHNIC INST & STATE UNIV

INVESTIGATOR
BURNS

MATHEMATICAL SCIENCES EDUCATION BOARD

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INVESTIGATOR
SWARD

CONTROL OF PRIORITY CUES IN HEAVY TRAFFIC

UNIV OF SOUTH FLORIDA

INVESTIGATOR
RAMACHANDRAN

NEW TRENDS AND APPLICATION OF DISTRIBUTED PARAMETER CONTROL SYSTEM

UNIV OF MINNESOTA

INVESTIGATOR
LEE

ESTIMATION AND CONTROL OF NON-LINEAR AND HYBRID SYSTEM WITH
APPLICATIONS TO AIR TO AIR GUIDANCE

NORTHWESTERN UNIVERSITY

INVESTIGATOR
MADDOX

INVESTIGATOR
ABRAHAM

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N 36 22/03/88 \$352,682	A CROWLEY 88-NM-354	\$118,734 30/09/88 \$331,497
N 24 25/03/88 \$204,087	CROWLEY 88-NM-361	
N 36 25/03/88 \$191,710	CROWLEY 88-NM-362	
N 36 18/04/88 \$208,779	CROWLEY 88-NM-372	
N 36 25/04/88 \$308,139	A CROWLEY 88-NM-378	970,295 01/10/88 \$255,551
N 36 25/04/88 \$150,000	CROWLEY 88-NM-387	
N 36 25/04/88 \$175,280	CROWLEY 88-NM-388	
N 12 06/05/88 \$10,000	CROWLEY 88-NM-393	
N 12 06/05/88 \$110,000	CROWLEY 88-NM-394	

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THE EXISTENCE OF SMOOTH DENSITIES FOR THE PREDICTION FILTERING & SMOOTHING PROBLEM UNIV OF ALBERTA	ELLIOTT ROBERT	R 24 06/05/88 862,714	A CROWLEY 88-MM-395	830,843 01/10/88 962,714
ANALYTICAL AND NUMERICAL STUDIES OF SINGULAR INTEGRAL EQUATIONS AND D LUMSMOOTH CONTROL PROBLEMS ATLANTA UNIVERSITY	KOFF GOTA	M 36 11/05/88 8460,833	M CROWLEY 88-MM-405	
COMPLETE INTERGRABILITY OF INFINITE DIMENSIONAL HAMILTONIAN SYSTEM S EMORY UNIVERSITY	SCHMIDT RUDOLF	M 36 11/05/88 8152,988	D CROWLEY 88-MM-407	
OPTIMIZATION METHODS IN CONTROL OF ELECTROMAGNETIC FIELDS UNIV OF DELAWARE	ANGELL T.	R 36 07/06/88 8189,773	CROWLEY 88-MM-434	
NUMERICAL METHODS FOR CLOSED-LOOP CONTROL ROBUSTNESS UNIV OF CALIFORNIA	LAUB ALAN	M 36 10/06/88 8129,485	CROWLEY 88-MM-439	
ON CONTROL PROBLEMS GOVERNED BY FUNCTIONAL DIFFERENTIAL EQUATIONS ATLANTA UNIVERSITY	MEDWIN M.	M 29 13/06/88 851,990	CROWLEY 88-MM-440	
ADAPTIVE CONTROL OF NONLINEAR AND STOCHASTIC SYSTEMS UNIV OF TEXAS	MARCUS STEVEN	R 36 13/06/88 8313,402	CROWLEY 88-MM-445	
ZEROS AND MODEL REDUCTION FOR INFINITE DIMENSIONAL SYSTEMS VIRGINIA POLYTECHNIC INST & STATE UNIV	LINDNER DOUGLAS	M 36 13/06/88 8122,116	CROWLEY 88-MM-446	
ROBUST STABILITY ANALYSIS OF LARGE SCALE SYSTEMS WITH CERTAIN STRUCTURED PERTURBATION MATRICES UNIV OF ILLINOIS	ESLAMI MANSOUR	M 12 13/06/88 863,999	CROWLEY 88-MM-447	
PARAMETER ESTIMATION IN MOVING BOUNDARY PROBLEMS AND OTHER NONLINEAR AR SYSTEMS UNIV OF NORTH CAROLINA	MURPHY KATHERINE	R 24 13/06/88 860,731	CROWLEY 88-MM-448	

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NONLINEAR SYSTEMS DESIGN: ADAPTIVE FEEDBACK LINEARIZATION WITH UHM ODLEO UNIV OF ILLINOIS	KOKOTOVIC PETER	N 24 27/06/88 \$317,597	CROWLEY 88-NM-463	
USING QUALITATIVE PROCESS DIAGNOSTICS FOR THE RELIABLE ADAPTIVE CO NTROL OF NONLINEAR SYSTEMS UNIV OF CONNECTICUT	COOPER DOUGLAS	N 36 27/06/88 \$227,886	CROWLEY 88-NM-464	
ON CONTROL PROBLEMS GOVERNED BY FUNCTIONAL DIFFERENTIAL EQUATIONS ATLANTA UNIVERSITY	MEDWIN N.	N 29 27/06/88 \$49,484	CROWLEY 88-NM-465	
ADAPTIVE HIGH-GAIN FEEDBACK CONTROL WASHINGTON STATE UNIVERSITY	SABERI ALI	N 24 29/06/88 \$119,103	CROWLEY 88-NM-466	
ALGEBRAICALLY SPECIFIED COMBINATIONAL OBJECTS UNIV OF MASSACHUSETTS	ROSENBERG ARNOLD	N 36 05/01/88 \$271,972	D MILLER 88-NM-179	
INTEGRATING INTERIOR POINT ALGORITHMS AND THE SIMPLEX METHOD PRINCETON UNIVERSITY	LUSTIG IRVIN	N 24 27/01/88 \$222,956	MILLER 88-NM-196	
COMPLEMENTARITY PROBLEMS UNIV OF MARYLAND BALTIMORE COUNTY	CONDA MUDDAPPA	N 24 27/01/88 \$61,548	D MILLER 88-NM-199	
PARALLEL AND ROBUST OPTIMIZATION GEORGE MASON UNIVERSITY	NASH STEPHEN	N 36 27/01/88 \$198,325	D MILLER 88-NM-202	
PAST ALGORITHMS FOR STRUCTURAL OPTIMIZATION, LEAST-SQUARES AND RELATED COMPUTATIONS NORTH CAROLINA STATE UNIVERSITY	PLEMNONS ROBERT	R 24 27/01/88 \$167,679	A MILLER 88-NM-207	882,335 01/08/88 \$167,679

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VULNERABILITY PROPERTIES OF CERTAIN CLASSES OF GRAPHS UNIV OF IDAHO	STURCKLE SAM	N 36 09/02/88 \$209,433	MILLER 88-NM-273	866,865 01/04/88 866,865
CONTROL THEORY FOR DISTRIBUTED PARAMETER SYSTEMS AEROSPACE COMPANY	FLAMM DAVID	N 07 22/02/88 \$79,990	A MILLER 88-NM-232	866,865 01/04/88 866,865
ERROR CORRECTING CODES AND RELATED DESIGNS UNIV OF ILLINOIS	PLESS VERA	N 24 22/02/88 \$109,764	A MILLER 88-NM-294	869,899 15/06/88 \$109,764
CYCLES AND PATHS IN GRAPHS - RESEARCH IN GRAPH THEORY WEST VIRGINIA UNIVERSITY	IMANG CUM-QUAN	N 12 26/02/88 \$45,781	MILLER 88-NM-306	869,899 15/06/88 \$109,764
ASYMPTOTIC METHODS IN COMBINATORIAL THEORY UNIV OF GEORGIA	CAMPFIELD E. RODNEY	N 24 26/02/88 \$46,828	A MILLER 88-NM-307	869,899 15/06/88 \$109,764
NONLINEAR STOCHASTIC OPTIMIZATION: NUMERICAL PROCEDURES AND STATISTICAL THEORY UNIV OF CALIFORNIA	WETS ROGER J. B.	R 24 26/02/88 \$112,371	A MILLER 88-NM-308	869,899 15/06/88 \$109,764
A RUTCOR PROJECT IN DISCRETE APPLIED MATHEMATICS RUTGERS - THE STATE UNIVERSITY	FRED S. ROBERTS PETER L. HAMMER	R 36 29/02/88 \$1,143,836	A MILLER 88-NM-321	869,899 15/06/88 \$109,764
NUMERICAL TECHNIQUES IN CONTROL AND OPTIMIZATION PENNSYLVANIA STATE UNIVERSITY	HAGER WILLIAM	N 03 29/02/88 \$40,000	A MILLER 88-NM-324	869,899 15/06/88 \$109,764
CODING FOR SPREAD-SPECTRUM CHANNELS IN THE PRESENCE OF JAMMING CALIFORNIA INSTITUTE OF TECHNOLOGY	MCLELCE ROBERT	R 24 23/02/88 \$153,617	A MILLER 88-NM-327	869,899 15/06/88 \$109,764
LINEAR PROGRAMMING TOOLS FOR INTEGER PROGRAMMING RICE UNIVERSITY	BIXBY ROBERT	R 36 17/03/88 \$260,781	MILLER 88-NM-339	869,899 15/06/88 \$109,764

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THE SPACE-TIME COMPLEXITY OF THE ALGORITHMS IN COMBINATORIAL GROUP THEORY AND RELATED MATTERS QUEENS COLLEGE	DIAPACLA ROBERT	M 24 21/03/88 \$337,981	MILLER 88-NM-352	\$100,000 01/09/88 \$100,000
RESEARCH IN CONSTRAINED OPTIMIZATION RILE UNIVERSITY	DENNIS JR. JOHN	R 12 24/03/88 \$100,000	A MILLER 88-NM-357	\$100,000 01/09/88 \$100,000
METHODS OF OPTIMIZATION UNDER UNCERTAINTY UNIV OF WASHINGTON	ROCKAPELLAR RALPH	M 24 9/03/88 \$126,366	A MILLER 88-NM-366	\$97,544 01/10/88 \$111,903
FLOW OPTIMIZATION ON MULTI-ATTRIBUTE TRANSPORTATION NETWORKS UNIV OF CALIFORNIA	MILLER RANDOLPH	M 12 06/05/88 \$53,892	D MILLER 88-NM-392	\$56,736 01/09/88 \$56,736
METHODS AND CONVERGENCE ANALYSES IN LARGE SCALE NONLINEAR OPTIMIZATION UNIV OF NORTH CAROLINA	TOLLE JON	M 16 02/06/88 \$56,736	A MILLER 88-NM-426	\$39,376 01/09/88 \$39,376
METHODS AND CONVERGENCE ANALYSES IN LARGE SCALE NONLINEAR OPTIMIZATION NATIONAL BUREAU OF STANDARDS	BOGGS PAUL	M 16 02/06/88 \$39,376	A MILLER 88-NM-427	\$39,376 01/09/88 \$39,376
METHODS AND CONVERGENCE ANALYSES IN LARGE SCALE NONLINEAR OPTIMIZA TION UNIV OF NORTH CAROLINA	TOLLE JON	M 36 06/06/88 \$321,654	MILLER 88-NM-429	
GENERALIZED MEASURES OF ROBUSTNESS IN STOCHASTIC PROGRAMMING JOHNS HOPKINS UNIVERSITY	ELLIS J. HUGH	M 36 07/06/88 \$132,186	D MILLER 88-NM-433	
CONTINUATION AND BIFURCATIONS INVESTIGATIONS IN CONSTRAINED OPTIM IZATION COLORADO STATE UNIVERSITY	POORE AUBREY	R 12 13/06/88 \$38,000	MILLER 88-NM-449	

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A STUDY OF ALGORITHMS FOR STRUCTURAL SHAPE OPTIMIZATION RICE UNIVERSITY	ARIM	N 24 13/06/88 \$131,274	MILLER 88-NM-430	
CENTER FOR PARALLEL OPTIMIZATION UNIV OF WISCONSIN	OLVI	N 36 21/06/88 \$1,490,751	MILLER 88-NM-458	
SEQUENTIAL AND PARALLEL ALGORITHMS FOR NETWORK OPTIMIZATION MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ORLIN	R 12 27/06/88 \$105,029	MILLER 88-NM-460	
DESIGN OPTIMIZATION OF SYSTEMS GOVERNED BY PARTIAL DIFFERENTIAL EQUATIONS ECODYNAMICS RESEARCH ASSOCIATION INC	ROACHE	N 06 05/01/88 \$58,200	A NACHMAN 88-NM-166	\$50,000 01/08/88 \$50,000
DIFFERENTIAL EQUATIONS AND CONTINUUM MECHANICS CALIFORNIA INSTITUTE OF TECHNOLOGY	COHEN	R 24 05/01/88 \$87,773	A NACHMAN 88-NM-168	\$41,775 15/07/88 \$87,773
SYMMETRY AND GLOBAL BIFURCATION IN NONLINEAR SOLID MECHANICS CORNELL UNIVERSITY	HEALEY	R 24 05/01/88 \$51,696	A NACHMAN 88-NM-174	\$43,304 01/08/88 \$43,304
A FOURIER APPROACH TO THE ANALYSIS AND DESIGN OF NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS UNIV OF CALIFORNIA	CHAN	N 36 06/01/88 \$266,473	NACHMAN 88-NM-185	
CHAOTIC BEHAVIOUR IN QUANTUM DYNAMICS CENTRO DI CULTURA SCIENTIFICA A VOLTA	CASATI	N 12 22/01/88 \$14,900	NACHMAN 88-NM-189	
FAST ALGORITHMS FOR PARTIAL DIFFERENTIAL EQUATIONS BROOKHAVEN NATIONAL LABORATORY	PASCIAK	N 36 27/01/88 \$538,700	NACHMAN 88-NM-192	
CHAOS IN CLASSICAL NONLINEAR FIELDS UNIV OF NEW HAMPSHIRE	SHEPARD	N 36 27/01/88 \$187,774	A NACHMAN 88-NM-201	\$21,951 01/07/88 \$21,951

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ITERATIVE ALGORITHMS FOR THE NUMERICAL SOLUTION OF THE MATRIX EQUA

TION AX+B
WRIGHT STATE UNIVERSITY

MILLER

DAVID

NONDESTRUCTIVE EVALUATION AND CHARACTERIZATION OF MEDIA WITH MICRO

STRUCTURE
UNIV OF DELAWARE

SANTOSA

PADIL

MASSIVELY PARALLEL COMPUTATIONAL FLUID DYNAMICS

UNIVERSITY OF MICHIGAN

CALAHAN

DONALD

SYSTEM IDENTIFICATION AND FILTERING OF NONLINEAR CONTROLLED MARKOV
PROCESSES BY CANONICAL VARIATE ANALYSIS
BUSINESS & TECHNOLOGICAL SYSTEMS, INC.

LARMORE

WALLACE

RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES: CALCULATION OF THE P
RELIABILITY OF UNDETECTED ERROR FOR CERTAIN ERROR DETECTION CODES
QUALCOMM, INC.

VITERBI

ANDREW

THE EFFECT OF SYMMETRY ON THE HYDRODYNAMIC STABILITY OF AND BIFURC
ATION FROM PLANAR SHEAR FLOWS
WORCESTER POLYTECHNIC INSTITUTE

BRIDGES

THOMAS

USE OF THE CRAY-2 FOR SCIENTIFIC COMPUTATION

CALIFORNIA INSTITUTE OF TECHNOLOGY

FOX

GEOFFREY

MULTIDIMENSIONAL DYNAMIC PROBLEMS IN PLASTICITY

DUKE UNIVERSITY

SCHAEFFER

DAVID

COMPUTATIONAL METHODS FOR PROBLEMS IN FLUID DYNAMICS

BOWLING GREEN UNIVERSITY

CHOU

SO-HSIANG

822,500
01/04/88
822,500NACHMAN
88-NM-204N 36
27/01/88
897,353NACHMAN
88-NM-208

822,500

855,772
01/05/88
8129,772NACHMAN
88-NM-211N 17
29/01/88
8154,956NACHMAN
88-NM-217

850,720

849,505
01/08/88
849,505NACHMAN
88-NM-259N 06
01/02/88
849,505NACHMAN
88-NM-266

838,658

838,658
01/09/88
838,658NACHMAN
88-NM-270N 12
03/02/88
835,604NACHMAN
88-NM-276

85,330

85,330
01/07/88
811,171NACHMAN
88-NM-293N 06
27/02/88
85,330

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THEORETICAL BIOLOGY AND BIOMATHEMATICS					
GORDON RESEARCH CONFERENCES INC	OTHMER	HAMS	N 12 25/02/88 \$16,367	A NACHMAN 88-NM-295	\$5,000 01/06/88 \$5,000
GRADUATE STUDENT AND POSTDOCTORAL FELLOWSHIP PROGRAM IN NONLINEAR DIFFERENTIAL EQUATIONS					
UNIV OF MARYLAND	ANTMAN	STUART	N 36 26/02/88 \$421,795	NACHMAN 88-NM-297	
FOURTH COPPER MOUNTAIN MULTIGRID CONFERENCE					
UNIV OF COLORADO AT DENVER	MANDEL	JAN	N 12 26/02/88 \$39,976	NACHMAN 88-NM-298	
MATERIAL INSTABILITIES IN SOLIDS					
SOUTHERN ILLINOIS UNIVERSITY	SPECTOR	SCOTT	N 17 29/02/88 \$20,385	A NACHMAN 88-NM-312	\$20,385 01/06/88 \$20,385
ANALOG COMPUTATION IN NEURAL SYSTEMS: ARCHITECTURES AND COMPLEXITY					
PRINCETON UNIVERSITY	DICKINSON	BRADLEY	N 12 29/02/88 \$66,986	A NACHMAN 88-NM-313	\$66,986 01/06/88 \$139,206
INTERDISCIPLINARY RESEARCH ON VISCOELASTICITY AND RHEOLOGY					
UNIV OF WISCONSIN	NOMEL	JOHN	N 12 29/02/88 \$40,500	A NACHMAN 88-NM-314	\$40,500 01/06/88 \$40,500
PROBLEMS IN NONLINEAR CONTINUUM DYNAMICS					
UNIV OF WISCONSIN	SLEMROD	MARSHALL	R 12 01/03/88 \$76,387	NACHMAN 88-NM-328	
MATHEMATICAL TOOLS FOR IMAGE RECONSTRUCTION					
UNIV OF CALIFORNIA	GRUNBAUM	F. ALBERTO	N 36 01/03/88 \$277,731	A NACHMAN 88-NM-331	\$95,650 01/06/88 \$305,548
PULSE PROPAGATION IN TEMPORALLY DISPERSIVE MEDIA					
WAVE-PRO	KRIEGSMAN	G.	N 12 09/03/88 \$25,000	A NACHMAN 88-NM-334	\$25,000 01/07/88 \$25,000
APPLICATIONS OF MULTIPARAMETER BIFURCATIONS OF PERIOD FUNCTIONS					
UNIV OF MISSOURI	CHICONE	CARMEN	N 24 18/03/88 \$225,778	NACHMAN 88-NM-344	

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PROGRAM MANAGER
PROPOSAL #INITIATE
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PROBLEMS IN FLAME-FLOW INTERACTION

UNIV OF NEW YORK CITY

GREGORY

SIVASHINSKY

M 36
18/03/88
\$253,391NACHMAN
88-NM-347

NUMERICAL AND ANALYTICAL STUDIES OF NONLINEAR WAVE PROPAGATION

STATE UNIVERSITY OF NEW YORK

THOMAS

HAGSTROM

M 36
21/03/88
\$115,622NACHMAN
88-NM-349

INSTABILITY AND TRANSITION IN COMPRESSIBLE BOUNDARY LAYERS

EXETER UNIVERSITY

PHILIP

HALL

M 36
22/03/88
\$131,087NACHMAN
88-NM-355ASYMPTOTIC SOLUTION OF INVERSE PROBLEMS USING FOURIER INTEGRAL OPERATOR METHODOLOGY
COLORADO SCHOOL OF MINES

FRANK

HAGIN

M 15
23/03/88
\$118,460NACHMAN
88-NM-356

SOME MATHEMATICAL PROBLEMS IN CONTINUUM MECHANICS

CARNEGIE-MELLON UNIVERSITY

WILLIAM

HRUSA

M 12
25/03/88
\$129,805NACHMAN
88-NM-358INVESTIGATIONS OF EQUILIBRIA, LATTICES, AND CHAOTIC DYNAMICS OF 2-D HAMILTONIAN POINT VOICES
UNIV OF CALIFORNIA

JAMES

KLOTKE

M 24
29/03/88
\$196,528NACHMAN
88-NM-363

CONFERENCE ON NONLINEAR PHENOMENA IN FLUID MECHANICS

PENNSYLVANIA STATE UNIVERSITY

JERRY

BONA

M 12
29/03/88
\$24,550NACHMAN
88-NM-365ADVANCED EXPLICIT MARCHING SCHEMES FOR THE EULER AND NAVIER-STOKES EQUATIONS
UNIV OF MICHIGAN

BRAM VAN

LEER

M 24
30/03/88
\$233,208NACHMAN
88-NM-367

CAUSTICS IN INVERSE SCATTERING

RILE UNIVERSITY

WILLIAM

SYMES

M 12
15/04/88
\$16,849NACHMAN
88-NM-371\$16,849
01/09/88
\$16,849

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A COMBINED MULTIGRID/MINIMAL-RESIDUAL STRATEGY FOR SOLVING NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS UNIV OF MICHIGAN	POWELL KENNETH	N 24 25/04/88 \$150,759	NACHMAN 88-NM-374	
RESEARCH AND DEVELOPMENT OF THE P-VERSION OF THE FINITE ELEMENT METHOD WASHINGTON UNIVERSITY	KATZ I. NORMAN	R 36 25/04/88 \$290,696	D NACHMAN 88-NM-376	
A TOOL-BASED SOFTWARE LABORATORY FOR DISTRIBUTED AND PARALLEL COMPUTING UNIV OF ARIZONA	ANDREWS GREGORY	N 36 25/04/88 \$1,263,729	NACHMAN 88-NM-377	
PROBLEMS IN NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS UNIV OF MICHIGAN	SMOLLER JOEL	N 12 26/04/88 \$67,197	NACHMAN 88-NM-389	
A HYBRID DIFFUSING VORTEX-FINITE-DIFFERENCE METHOD FOR INCOMPRESSIBLE NAVIER-STOKES EQUATIONS INTELLIGENT SYSTEMS INTEGRATION INC.	YUN LU ZHI	N 12 28/04/88 \$29,673	NACHMAN 88-NM-391	
HYBRID SCATTERED DATA TECHNIQUES IN COMPUTATIONAL FLUID DYNAMICS LAWRENCE LIVERMORE LAB (CALIF UNIV)	KANSA EDWARD	N 36 06/05/88 \$115,015	NACHMAN 88-NM-398	
MATHEMATICAL MODELLING OF ADVANCED FUEL PROPERTIES UNIV OF GEORGIA	KING BRUCE	N 36 06/05/88 \$368,606	NACHMAN 88-NM-399	
GEOMETRY OF ENERGY MINIMIZING SURFACES RUTGERS - THE STATE UNIVERSITY	TAYLOR JEAN	R 12 06/05/88 \$39,773	A NACHMAN 88-NM-400	\$39,773 01/09/88 \$39,773
UNIQUENESS THEOREMS AND NUMERICAL SOLUTION TO 3D INVERSE SCATTERING PROBLEMS KANSAS STATE UNIVERSITY	RAMM ALEXANDER	N 36 06/05/88 \$274,068	NACHMAN 88-NM-401	
COLLECTIVE PROPERTIES OF NEURAL SYSTEMS AND THEIR RELATION TO OTHER PHYSICAL MODELS CLARKSON UNIVERSITY	POKAS A	N 12 06/05/88 \$41,952	NACHMAN 88-NM-402	

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EFFICIENT ALGORITHMS FOR STRUCTURED MATRICES AND KERNELS UNIV OF CONNECTICUT	KOLTRACHT ISRAEL	N 36 11/05/88 \$194,041	NACHMAN 88-NM-410	
NUMERICAL AND ANALYTICAL STUDIES OF STEFAN PROBLEMS NORTH CAROLINA A AND T STATE UNIV	BORIN	N 12 12/05/88 \$90,876	A NACHMAN 88-NM-411	\$5,000 01/09/88 \$182,044
ULTIMATE UNSTRUCTURED GRID METHOD(CUUGH) SCIENCE APPLICATIONS INTERNATIONAL CORP.	EIDELMAN SHMUEL	N 36 16/05/88 \$427,858	NACHMAN 88-NM-413	
SYSTEM OF NONLINEAR CONSERVATION LAWS NORTH CAROLINA STATE UNIVERSITY	SWEARER MICHAEL	R 24 17/05/88 \$99,238	NACHMAN 88-NM-416	
ADVANCED STUDIES OF INTEGRABLE SYSTEMS CLARKSON UNIVERSITY	KAUP DAVID	R 12 17/05/88 \$72,560	A NACHMAN 88-NM-417	\$72,560 01/10/88 \$72,560
ADAPTIVE GRID FINITE ELEMENT TECHNIQUES FOR TRANSONIC FULL POTENTIAL FLOW PROBLEMS BOEING COMPUTER SERVICES INC	BIETERMAN MICHAEL	N 18 17/05/88 \$141,702	NACHMAN 88-NM-418	
DYNAMICAL SYSTEMS THEORY WITH APPLICATIONS TO ARTIFICIAL INTELLIGENCE AND FORECASTING LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	FARMER J DOYNE	N 12 24/05/88 \$50,000	A NACHMAN 88-NM-424	\$50,000 15/07/88 \$50,000
NUMERICAL STUDIES OF ABSORBING BOUNDARY METHODS CARNEGIE-MELLON UNIVERSITY	BIELAK JACOB	N 24 06/06/88 \$133,206	NACHMAN 88-NM-430	
CENTER FOR ANALYSIS OF HETEROGENEOUS AND NONLINEAR MEDIA NEW YORK UNIVERSITY	CAPLISCH RUSSEL	R 12 06/06/88 \$534,000	NACHMAN 88-NM-432	

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FREE BOUNDARY PROBLEMS FOR FLOWS WITH VORTICITY WICHITA STATE UNIVERSITY	ELCHART ALAN	R 12 08/06/88 923,337	NACHMAN 88-NM-435	
SIGNET-SOFTWARE TOOLS FOR SIGNAL IDENTIFICATION USING NEURAL NETWO RES SAM TECHNOLOGY, INC.	GEVINS ALAN	N 24 08/06/88 9521,073	NACHMAN 88-NM-437	
NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS FOR GAS DYNAMICS AND ELAS TICITY NEW YORK UNIVERSITY	LIU TAI-PING	N 36 10/06/88 9165,747	NACHMAN 88-NM-438	
STUDIES IN GLOBAL BIFURCATION AND SYMMETRY CORNELL UNIVERSITY	HOLMES PHILIP	N 24 13/06/88 9389,413	NACHMAN 88-NM-443	
STUDIES IN GLOBAL BIFURCATION AND SYMMETRY CORNELL UNIVERSITY	GUCKENHEIMER JOHN	N 24 27/06/88 9389,413	NACHMAN 88-NM-459	
THE DESIGN OF A FAULT-TOLERANT ENVIRONMENT FOR DATABASE APPLICATIO NS FLORIDA ATLANTIC UNIVERSITY	FERNANDEZ EDUARDO	N 24 05/01/88 9194,206	WAKSMAN 88-NM-176	
SOFTWARE MODULES FOR STEREO, TEXTURE AND PERCEPTUAL GROUPING IN EAR LY VISION UNIV OF ILLINOIS	AMUJA NARENDRA	N 12 05/01/88 865,000	A WAKSMAN 88-NM-178	865,000 01/07/88 857,389
INVESTIGATIONS IN NONMONOTONIC REASONING ARTIFICIAL INTELLIGENCE RESCH INSTITUTE	BROWN FRANK	N 36 27/01/88 9341,650	WAKSMAN 88-NM-209	
PARALLEL COMPUTING OF NUMERICAL FLOW FIELDS TEMPLE UNIVERSITY SCHOOL OF MEDICINE	LIN AVI	N 24 27/01/88 9285,962	WAKSMAN 88-NM-210	
NONMONOTONIC TEMPORAL REASONING STANFORD UNIVERSITY	SMOHAN TOAY	N 24 03/02/88 9586,186	WAKSMAN 88-NM-269	

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RESEARCH OF PROGRAMMING LANGUAGES AND SOFTWARE ENGINEERING UNIVERSITY OF MARYLAND	BASIL VICTOR	N 11 04/02/88 9374,520	A WAKSMAN 88-NM-271	8223,781 01/07/88 8223,781
TEXTURE PERCEPTION AND SHAPE FROM TEXTURE UNIV OF ILLINOIS	AMUJA MARENORA	N 12 04/02/88 958,399	A WAKSMAN 88-NM-272	865,468 15/05/88 958,399
MACHINE TRACTABLE DICTIONARIES AS TOOLS AND RESOURCES FOR NATURAL LANGUAGE PROCESSING NEW MEXICO STATE UNIVERSITY	WILKS YORICK	N 24 26/02/88 9386,247	WAKSMAN 88-NM-300	
HARDWARE AND SOFTWARE INSTRUMENTATION FOR PERFORMANCE MONITORING A ND APPLICATION SUPPORT FOR PARTITIONABLE SIMD/MIMD PARALLEL COMPUT PURDUE RESEARCH FOUNDATION	DAN MARINESCU	N 36 26/02/88 9887,024	WAKSMAN 88-NM-309	
PARALLEL ARCHITECTURES DESIGN, VALIDATION, IMPLEMENTATION UNIV OF MASSACHUSETTS	ROSENBERG ARNOLD	N 36 29/02/88 9594,235	WAKSMAN 88-NM-320	
SCALING SEGMENTATION AND REASONING UNDER UNCERTAINTY UNIV OF PENNSYLVANIA	BAJCKY RUZENA	N 36 01/03/88 9109,474	A WAKSMAN 88-NM-329	8109,474 01/08/88 9358,263
THE DEVELOPMENT OF STRUCTURE FOR THE REPRESENTATION AND MANIPULAT ION OF SOPHISTICATED KNOWLEDGE IN INTELLIGENT SYSTEMS IUMA COLLEGE	YAGER DONALD	N 24 01/03/88 831,381	A WAKSMAN 88-NM-330	931,380 01/04/88 863,862
COLLABORATIVE PLANNING HARVARD UNIVERSITY	GROSS BARBARA	N 12 07/03/88 928,019	A WAKSMAN 88-NM-333	928,019 01/09/88 928,020
SOFTWARE TOOLS FOR THE DESIGN AND TUNING OF PARALLEL SUPERCOMPUTER APPLICATIONS INDIANA UNIVERSITY FOUNDATION	GANNON DENNIS	N 24 21/03/88 9465,436	WAKSMAN 88-NM-330	

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ARTIFICIAL INTELLIGENCE DATABASE MANAGEMENT				
PURDUE RESEARCH FOUNDATION	CHEN-TU SHEU	N 24 25/04/88 \$112,396	WAKSMAN 88-NM-373	
PARALLEL ARCHITECTURES AND ALGORITHMS FOR IMAGE UNDERSTANDING				
UNIV OF SOUTHERN CALIFORNIA	NEVATIA R.	N 06 25/04/88 \$267,434	A WAKSMAN 88-NM-375	\$50,541 01/09/88 \$267,434
SPEECH CODERS: A FAULT DIAGNOSTIC DESIGN APPROACH				
UNIV OF FLORIDA	CHILDERS DONALD	N 24 25/04/88 \$266,846	WAKSMAN 88-NM-381	
THE ACQUISITION AND UTILIZATION OF SPATIAL AND FUNCTIONAL KNOWLEDGE FOR IMAGERY ANALYSIS				
CARNEGIE-MELLON UNIVERSITY	MCKEOWN DAVID	N 36 06/05/88 \$627,489	A WAKSMAN 88-NM-396	\$86,715 01/10/88 \$520,775
QUALITATIVE THEORY FOR NEURAL NETWORKS: ANALYSIS AND SYNTHESIS				
UNIV OF NOTRE DAME	MICHEL A	N 24 06/05/88 \$133,614	WAKSMAN 88-NM-397	
DEVELOPMENT OF PROBABILISTIC AND POSSIBILISTIC APPROACHES TO APPROXIMATE REASONING AND ITS APPLICATIONS				
UNIV OF CALIFORNIA	ZADEH LOTFI	N 12 10/05/88 \$150,000	A WAKSMAN 88-NM-404	\$50,000 30/09/88 \$150,000
COMPUTER AND MATHEMATICAL MODELLING OF MASSIVELY PARALLEL ARCHITECTURES FOR SELF-ORGANIZING NEURAL PATTERN RECOGNITION MACHINES				
BOSTON UNIVERSITY	GROSSBERG STEVEN	R 36 16/05/88 \$473,202	WAKSMAN 88-NM-412	
ADVANCED RESEARCH WORKSHOPS ON APPROXIMATE REASONING				
SR. INTERNATIONAL	RUSPINI ENRIQUE	N 05 16/05/88 \$21,394	A WAKSMAN 88-NM-414	\$21,394 01/07/88 \$21,394
ADVANCED CONCEPTS AND METHODS OF APPROXIMATE REASONING				
SR. INTERNATIONAL	RUSPINI ENRIQUE	N 12 16/05/88 \$101,309	A WAKSMAN 88-NM-415	\$50,695 30/09/88 \$50,695
DEFENSE ADVANCED RESEARCH PROJECTS AGENCY				
BROWN UNIVERSITY	DEAN THOMAS	N 06 19/05/88 \$75,000	A WAKSMAN 88-NM-419	\$75,000 01/09/88 \$440,000

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TOWARD DEFINITION OF GENERIC PERFORMANCE INDICATORS FOR ARTIFICIAL INTELLIGENCE SOFTWARE DYNAMICS COMPUTER CORPORATION	WHITE MILTON	N 12 19/05/88 934,856	WAKSMAN 88-MM-420	
MEMORY-BASED EXPERT SYSTEMS YALE UNIVERSITY	SCHANK ROGER	N 06 23/05/88 9100,000	A WAKSMAN 88-MM-421	950,000 30/09/88 9719,000
EVALUATION METHODOLOGY FOR SOFTWARE ENGINEERING JOHNS HOPKINS UNIVERSITY	- BLUM BRUCE	N 15 24/05/88 952,800	A WAKSMAN 88-MM-422	952,800 01/10/88 9108,400
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES NATIONAL ACADEMY OF SCIENCES	M. S. BLUMENTHA	N 18 24/05/88 615,000	A WAKSMAN 88-MM-423	915,000 30/09/88 935,000
THE ASCRIPTION AND USE OF NESTED BELIEFS IN MULTIPLE AGENT INTERAC TION NEW MEXICO STATE UNIVERSITY	WILKS YORICK	N 24 06/06/88 9296,328	WAKSMAN 88-MM-431	
UNCERTAINTY MODELING IN COMPUTER VISION UNIV OF MISSOURI	KELLER JAMES	N 36 08/06/88 9283,350	WAKSMAN 88-MM-436	
PARALLEL PROCESSING REAL-TIME CRITICAL MAIN MEMORY DATABASE SYSTEM S MICHIGAN STATE UNIVERSITY	PRAMANIK SAKTI	N 12 13/06/88 932,684	D WAKSMAN 88-MM-441	
UNCERTAINTY MODELING IN COMPUTER VISION UNIV OF MISSOURI	KELLER JAMES	N 36 13/06/88 9283,350	WAKSMAN 88-MM-442	
DATA COMPILATION: ITS DESIGN AND ANALYSIS INDIANA UNIVERSITY FOUNDATION	FRANCO JOHN	N 36 13/06/88 9612,423	WAKSMAN 88-MM-451	

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CONNECTIONIST VLSI ARCHITECTURES				
OREGON GRADUATE CENTER FOR STUDY & RESCH	HAMMERSTROM	M 12 16/06/88 850,000	A WAKSMAN 88-NM-452	850,000 01/10/88 850,000
IMAGE UNDERSTANDING AND INTELLIGENT PARALLEL SYSTEMS				
UNIV OF ROCHESTER	BROWN	M 06 17/06/88 850,000	A WAKSMAN 88-NM-453	850,000 01/10/88 8600,000
DEVELOPMENT OF THE ASPECT GRAPH REPRESENTATION FOR USE IN ROBOT VISION				
UNIV OF SOUTH FLORIDA	BOWYER	M 12 17/06/88 857,236	A WAKSMAN 88-NM-454	857,236 01/10/88 8161,918
MULTIVARIATE PROBLEMS OF STATISTICS AND INFORMATION THEORY				
COLORADO STATE UNIVERSITY	SRIVASTAVA	M 12 05/01/88 857,500	A WOODRUFF 88-NM-167	857,500 15/04/88 857,500
STATISTICAL METHODOLOGIES FOR NON GAUSSIAN NOISY ENVIRONMENTS				
BOSTON UNIVERSITY	TANQU	M 36 05/01/88 8296,511	A WOODRUFF 88-NM-169	871,000 30/09/88 8235,000
DESIGN AND ANALYSIS OF COMPUTATIONAL EXPERIMENTS				
OAK RIDGE NATIONAL LAB	MITCHELL	M 06 05/01/88 875,000	WOODRUFF 88-NM-170	
STOCHASTIC MODEL IN RELIABILITY				
UNIV OF CALIFORNIA	ROSS	R 12 05/01/88 864,177	A WOODRUFF 88-NM-172	851,000 01/08/88 851,000
LIMITS FOR SEQUENTIAL TESTING, CROSSING TIMES AND MARK SUMS				
UNIVERSITY OF MICHIGAN	KEENER	M 36 06/01/88 8159,124	WOODRUFF 88-NM-187	
REGULAR VARIATION IN SEVERAL VARIABLES				
ALBION COLLEGE	MEERSCHAERT	M 36 27/01/88 830,766	D WOODRUFF 88-NM-193	
RELIABILITY ASSESSMENT FOR ONE-SHOT DEVICES BASED ON REPEATED SAMP LES				
UNIV OF MISSOURI	BAIN	R 12 27/01/88 837,472	D WOODRUFF 88-NM-200	

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THEORY AND APPLICATION OF RANDOM FIELDS TECHNION-ISRAEL INST OF TECHNOLOGY	ADLER	R 36 09/02/88 \$119,000	WOODRUFF 88-NM-275	
HIGHER ORDER CROSSINGS UNIV OF MARYLAND	KEDEM	R 36 29/02/88 \$182,800	A WOODRUFF 88-NM-310	948,200 01/10/88 999,200
SOME STRUCTURAL ASPECTS OF RANDOM FIELDS UNIV OF CINCINNATI	ORYC	M 24 29/02/88 \$37,206	WOODRUFF 88-NM-311	
FAST SIGNAL PROCESSING ALGORITHMS WITH APPLICATIONS TO PASSIVE SUR VEILLANCE AND IDENTIFICATION UNIV OF MINNESOTA	TEMPER	M 36 29/02/88 \$299,891	D WOODRUFF 88-NM-319	
RESEARCH IN STATISTICAL INFERENCE TEXAS A AND M RESEARCH FOUNDATION	CARROLL	M 24 29/02/88 \$136,295	WOODRUFF 88-NM-322	
SUPERCOMPUTING IN EXPERIMENTAL DESIGN UNIV OF ILLINOIS	SACKS	M 09 04/03/88 \$21,000	A WOODRUFF 88-NM-322	930,000 15/03/88 930,000
SYSTEM RELIABILITY ANALYSIS AND INFERENCE UNIV OF CALIFORNIA	BARLOW	M 12 09/03/88 \$106,000	A WOODRUFF 88-NM-335	9106,000 01/08/88 9106,000
BASIC RESEARCH IN RELIABILITY FOR REAL SYSTEMS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	LI	M 24 14/03/88 \$104,000	A WOODRUFF 88-NM-336	951,500 15/07/88 9104,000
STUDIES IN STATISTICAL SIGNAL PROCESSING STANFORD UNIVERSITY	KAILATH	R 24 17/03/88 \$355,378	A WOODRUFF 88-NM-341	989,330 01/09/88 9182,930

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SOME PROBLEMS IN NONPARAMETRIC REGRESSION				
SOUTHERN METHODIST UNIVERSITY	EUBANK	N 24 18/03/88 9103.012	WOODRUFF 88-MM-345	
SELF-COHERENCE-EXPLOITING ALGORITHMS FOR SIGNAL DETECTION, PARAMETER ESTIMATION AND EXTRACTION				
UNIV OF CALIFORNIA	GARDNER	N 36 18/03/88 9506.219	WOODRUFF 88-MM-346	
WORKSHOP ON HIGHER-ORDER SPECTRAL ANALYSIS				
UNIV OF SOUTHERN CALIFORNIA	MEHDEL	N 12 18/03/88 919.430	D WOODRUFF 88-MM-348	
DYNAMIC PROGRAMMING FOR OPTIMAL DETECTION, CLASSIFICATION, ESTIMATION AND SPECTRAL ANALYSIS				
UNIV OF RHODE ISLAND	KAY	N 36 21/03/88 9210.795	WOODRUFF 88-MM-353	
ALGEBRAIC ASPECTS OF NETWORK RELIABILITY PROBLEMS				
COLLEGE OF WILLIAM AND MARY	SHIER	N 24 31/03/88 9111.900	WOODRUFF 88-MM-368	
RELIABILITY ASSESSMENT FOR SYSTEMS SUBJECT TO MAINTENANCE & REPAIR				
CITY COLLEGE - CUMY	BROWN	R 12 31/03/88 935.667	WOODRUFF 88-MM-369	
PROBABILITY AND STATISTICS APPLIED TO THE THEORY OF ALGORITHMS				
PRINCETON UNIVERSITY	STEELE	N 36 31/03/88 9211.620	WOODRUFF 88-MM-370	
EIGHTEENTH CONFERENCE ON STOCHASTIC PROCESSES AND THEIR APPLICATIONS				
UNIV OF WISCONSIN	KURTZ	N 12 25/04/88 940.507	WOODRUFF 88-MM-380	
MORTE CARLO RELIABILITY ANALYSIS				
NORTHWESTERN UNIVERSITY	LEWIS	R 24 25/04/88 9130.713	WOODRUFF 88-MM-383	
EXACT & DIAGNOSTIC PROCEDURES FOR THE ANALYSIS OF MIXED LINEAR MODELS				
UNIV OF FLORIDA	KHURI	N 24 25/04/88 9240.308	WOODRUFF 88-MM-394	

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FAULT-TOLERANT SIGNAL DETECTION PRINCETON UNIVERSITY	REIDMAN AMY	N 36 25/04/88 8159,960	WOODRUFF 88-NM-385	
COMPUTATIONAL METHODS IN THE ANALYSIS AND DESIGN OF STOCHASTIC NET WORKS UNIV OF NORTH CAROLINA	FISHMAN GEORGE	R 36 25/04/88 81,492,085	WOODRUFF 88-NM-386	
OPTIMAL REPLACEMENT USING A SINGLE REPAIRMAN TEXAS A AND M RESEARCH FOUNDATION	FELDMAN R.	N 24 26/04/88 8111,761	WOODRUFF 88-NM-390	
SMALL BUSINESS INNOVATION RESEARCH PROGRAM PK CORPORATION	AZAROS P PAPANTONI-	N 12 06/05/88 841,200	D WOODRUFF 88-NM-403	
CONSTRAINED PROBLEMS IN SUBOPTIMAL DECISION THEORY UNIV OF WISCONSIN	KURTZ THOMAS	N 36 11/05/88 8357,457	WOODRUFF 88-NM-408	
ADAPTIVE ALGORITHMS FOR NONLINEAR FILTERING UNIV OF UTAH	MATHEWS V. JOHN	N 24 11/05/88 8174,612	WOODRUFF 88-NM-409	
BOARD ON MATHEMATICAL SCIENCE NATIONAL ACADEMY OF SCIENCES	GILPEATHER FRANK	N 03 02/06/88 970,000	A WOODRUFF 88-NM-428	970,000 01/07/88 970,000
CODING AND MODULATION FOR POWER AND BAND-LIMITED CHANNELS UNIV OF CALIFORNIA	BIGLIERI EZIO	N 12 13/06/88 975,000	WOODRUFF 89-NM-444	
DESIGN OF EXPERIMENTS AND RELIABILITY MODELS UNIV OF ILLINOIS	MEDATAT A.	R 36 21/06/88 8239,135	WOODRUFF 88-NM-455	

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APPLICATIONS OF THE LOGISTIC AND GENERALIZED LOGISTIC DISTRIBUTION

S
MEMPHIS STATE UNIVERSITY

INVESTIGATOR

GEORGE

E. OLUSEGUN

ALGORITHMS AND OPERATIONS FOR RELIABILITY AND CONNECTIVITY OF MULT
I-MOP DATA NETWORKS
UNIV OF VIRGINIA

PAPANTONI-KAZAKOS P.

ROBUST DETECTION OF SIGNALS FOR MULTISENSOR DATA USING LARGE DEVI
TION THEORY
MITEC INC

KAZAKOS

DEMETRIOS

STUDIES IN RELIABILITY, ESTIMATION, AND STOCHASTIC SEARCH

COLUMBIA UNIVERSITY

ROBBINS

HERBERT

TYPE/MONTHS
RECEIVED
AMOUNT

N 12
21/06/88
954,100

N 24
21/06/88
9301,759

N 24
21/06/88
980,000

N 24
21/06/88
9231,639

STATUS
PROGRAM MANAGER
PROPOSAL #

WOODRUFF
88-NM-456

WOODRUFF
88-NM-457

WOODRUFF
88-NM-461

WOODRUFF
88-NM-462

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START DATE
TOT AMT

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A TWO-STREAM PLASMA ELECTRON MICROWAVE SOURCE FOR HIGH POWER MILLIMETER WAVE GENERATION APPLIED MICROWAVE PLASMA CONCEPTS	GUEST	N 06 05/02/88 \$49,820	A BARKER 88-NP-049	849,820 01/08/88 \$49,820
NOVEL ELECTRON-BEAM DRIVEN DEVICES FOR THE GENERATION OF AMPLIFICATION OF MILLIMETER-WAVE RADIATION IRT CORPORATION	PHELPS	N 06 05/02/88 \$50,486	BARKER 88-NP-051	
DEVELOPMENT OF MMWAVE GYROTRON CENTER FOR REMOTE SENSING	GANGULY	N 06 05/02/88 \$82,480	BARKER 88-NP-052	
INVESTIGATION OF STIMULATED EMISSION STRIPLINE TRAVELING WAVE AMPL IFIER FOR MILLIMETER WAVE AMPLIFICATION STAR MICROWAVE	PHILLIPS	N 06 16/02/88 \$49,748	BARKER 88-NP-082	
HIGH GAIN, METAL GRATING FREE ELECTRON LASER IRVINE SCIENCE ASSOCIATES	WESSEL	N 06 16/02/88 \$49,993	BARKER 88-NP-083	
MILLIMETER-WAVE/MICROWAVE FREE-ELECTRON POWER TUBE FELTECH	ELIAS	N 06 16/02/88 \$57,330	BARKER 88-NP-094	
DEVELOPMENT OF THE AXIAL INJECTION ORBITRON MASER (AXIOM) BURKE TECHNOLOGIES INC.	BURKE	N 06 16/02/88 \$49,996	BARKER 88-NP-085	
ULTRA-SHORT PULSES OF MILLIMETER WAVE RADIATION VIA MODELOCKED QUA SI-OPTICAL GYROTRON PHYSICAL SCIENCES INC.	READ	N 06 16/02/88 \$49,997	BARKER 88-NP-091	
A SYSTEM FOR INTERFACING WITH BASIC PLASMA PHYSICS COMPUTATIONS JAYCOR	GLADD	R 12 17/03/88 \$100,488	A BARKER 88-NP-106	\$26,488 01/07/88 \$100,488

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INSTITUTION

INVESTIGATOR

A JOINT INDUSTRY-UNIVERSITY PROGRAM FOR COMPUTATIONAL PLASMA
RESEARCH
MISSION RESEARCH CORP

GOPLEN

BRUCE

EXPERIMENTAL RESEARCH ON HIGH GRADIENT ACCELERATION BY WAKEFIELDS

TEXAS A AND M RESEARCH FOUNDATION

CHEW

K

LASER SWITCHED POWER LINAC

UNIV OF ROCHESTER

MELISSINOS

A.

NOVEL METHODS OF ACCELERATION

CORNELL UNIVERSITY

NATION

JOHN

MILLIMETER WAVE GENERATION BY RELATIVISTIC ELECTRON BEAMS AND
ARTIFICIAL ATMOSPHERIC PLASMA
POLYTECHNIC UNIVERSITY

KUD

SPENCER

NONLINEAR MICROWAVE EFFECTS IN THE ATMOSPHERE

NATIONAL OCEANIC AND ATMOSPHERIC ADMIN

MILL

REGINALD

COMPUTER SIMULATIONS OF RADIATION GENERATION FROM RELATIVISTIC
ELECTRON BEAMS
UNIV OF CALIFORNIA

LIN

ANTHONY

SO T X-RAY LASER RESEARCH IN A MAGNETICALLY CONFINED PLASMA COLUMN

PRINCETON UNIVERSITY

SUCKEWER

SZYMON

BASIC STUDIES IN PLASMA PHYSICS: STATISTICAL MECHANICS OF
INTERACTING COULOMB SYSTEMS
RUTGERS - THE STATE UNIVERSITY

LEBOWITZ

JOEL

MICROWAVE EMISSION FROM RELATIVISTIC ELECTRON BEAMS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

BERKEFI

GEORGE

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 12 18/03/88 \$99,561	A BARKER 88-NP-107	\$25,000 01/07/88 \$99,561
R 12 04/04/88 \$110,000	A BARKER 88-NP-113	\$110,000 01/07/88 \$110,000
R 12 08/04/88 \$163,000	BARKER 88-NP-119	
R 16 21/04/88 \$204,500	A BARKER 88-NP-126	\$204,500 30/09/88 \$204,500
N 24 26/04/88 \$286,425	A BARKER 88-NP-129	\$139,649 01/10/88 \$286,425
N 12 11/05/88 \$66,905	BARKER 88-NP-133	
R 12 22/06/88 \$155,000	A BARKER 88-NP-146	\$155,000 01/10/88 \$155,000
R 12 23/06/88 \$103,350	A BARKER 88-NP-147	\$103,350 01/10/88 \$103,350
R 12 30/06/88 \$90,513	A BARKER 88-NP-149	\$90,513 01/11/88 \$90,513
R 12 30/06/88 \$95,000	A BARKER 88-NP-150	\$95,000 01/11/88 \$95,000

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TYPE/MONTHS
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AMOUNTSTATUS
PROGRAM MANAGER
PROPOSAL #INITIATE
START DATE
TOT AMTSPECTRALLY RESOLVED DETECTION OF RAPIDLY CHANGING IR SIGNATURES
(PC-034A)
PHYSICAL SCIENCES INC

ROBERT

N 06
05/02/88
\$49,993KELLEY
88-NP-055

1988 GORDON CONFERENCE ON PLASMA CHEMISTRY

GORDON RESEARCH CONFERENCES INC

ALAN

N 12
29/02/88
\$6,500KELLEY
88-NP-096\$6,500
01/07/88
\$6,500

EXPERIMENTS WITH TRAPPED NEUTRAL ATOMS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DAVID

N 12
02/03/88
\$55,000KELLEY
88-NP-097\$55,000
01/04/88
\$55,000

TERMOLUCULAR ASSOCIATION OF IONS IN GASES

GEORGIA TECH RESEARCH CORPORATION

M

N 12
16/03/88
\$99,311KELLEY
88-NP-105\$99,311
01/07/88
\$99,311

FORTY-FIRST ANNUAL GASEOUS ELECTRONICS CONFERENCE

UNIV OF MINNESOTA

DOUGLAS

N 12
18/03/88
\$7,500KELLEY
88-NP-108\$7,500
01/07/88
\$7,500

INELASTIC COLLISIONAL PROCESSES TO MOLECULES

UNIV OF WISCONSIN

CHUM

N 12
21/04/88
\$159,838KELLEY
88-NP-124

STUDIES OF PHOTON-ATOM/MOLECULE COLLISIONS

UNIV OF CENTRAL FLORIDA

M.

N 24
18/05/88
\$196,419KELLEY
88-NP-136

ANTI-PROTON STUDIES IN PENNING TRAPS

HARVARD UNIVERSITY

GERALD

N 32
21/01/88
\$764,347PRINCE
88-NP-042\$239,054
01/08/88
\$764,347

NOVEL TECHNIQUES IN SEISMIC DETECTION

POTOMAS SYNERGETIC INC. (PSI)

V.

N 06
08/02/88
\$49,548PRINCE
88-NP-063

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INNOVATION THEORETICAL DISCRIMINANT FOR SEISMIC DETECTION AND DIFFERENTIATION MISSION RESEARCH CORP	STONE	N 06 09/02/88 \$50,576	PRINCE 88-NP-065	
ULTRASENSITIVE STM-BASED SENSOR FOR DETECTING SEISMIC SIGNALS QUANSCAN, INC.	WEST	N 06 11/02/88 \$49,696	PRINCE 88-NP-067	
MULTIVARIATE SIGNAL ANALYSIS NOVEL TECHNIQUES IN SEISMIC DETECTION TOR GEOPHYSICS CORPORATION	KON	N 06 11/02/88 \$49,995	PRINCE 88-NP-068	
INVESTIGATION OF IMPROVED PIEZOELECTRIC SEISMIC TRANSDUCERS WILCOXON RESEARCH	WILCOXON	N 06 11/02/88 \$49,981	PRINCE 88-NP-069	
DEVELOPMENT OF FIBER OPTIC SEISMOMETER SYSTEM EDGEWISE SENSOR PRODUCTS	CAROME	N 06 11/02/88 \$50,000	PRINCE 88-NP-070	
NOVEL TECHNIQUES IN SEISMIC DETECTION PAL CONSULTANTS, INC.	PAL	N 06 11/02/88 \$49,700	PRINCE 88-NP-071	
SATELLITE-BORNE SEISMOMETER (SBS) FOR ESTIMATION OF YIELDS OF UNDERGROUND NUCLEAR TESTS EAGLE RESEARCH GROUP, INC.	SQUIRE	N 06 11/02/88 \$49,981	PRINCE 88-NP-072	
THE USE OF NONLINEAR SYSTEM IDENTIFICATION TECHNIQUES FOR IMPROVED SEISMIC DETECTION MULTISPEC CORPORATION	SHERY	N 06 11/02/88 \$49,985	PRINCE 88-NP-073	
CORRELATION BETWEEN SUDDEN IONOSPHERIC DISTURBANCES AND EARTHQUAKES APPLIED CRYSTAL ENGINEERING, INC.	KEYSER	N 06 11/02/88 \$49,306	PRINCE 88-NP-074	
SEISMIC DETECTION BY USE OF SUPERCONDUCTIVE MAGNETIC LEVITATION LBLM ASSOCIATES, INC.	CRAVENS	N 06 11/02/88 \$49,980	PRINCE 88-NP-086	

STEVE

PAUL

JOSEPH

M.

EDWARD

NICK

ROBERT

DAVID

EDDIE

DENNIS

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EXTREMELY SENSITIVE, RUGGED, AND DIRECTIONAL SEISMOMETER OPTIMA SYSTEMS, INC.	ERCHIAN LEON	N 06 18/02/88 950,000	PRINCE 88-NP-087	
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES NATIONAL SCIENCE FOUNDATION	BERG JOSEPH	N 12 05/04/88 915,000	A PRINCE 88-NP-115	915,000 01/10/87 915,000
TO FUND TRAVEL EXPENSES FOR INVITED SCIENTIFIC/TECHNICAL GUEST SPEAKERS TO ADDRESS SYMPOSIA AT ABET SCHOOL OF ENGINEERING AIR FORCE INSTITUTE OF TECHNOLOGY	JAMES MILLS	N 12 07/04/88 912,000	A PRINCE 88-NP-117	
DESIGN STUDY P COOLING IN AGS BOOSTER UNIV OF MARYLAND	PEASLEE D.	N 12 13/04/88 968,516	PRINCE 88-NP-120	
COMMITTEE ON GEODESY NATIONAL ACADEMY OF SCIENCES	LONG ROBERT	N 12 26/04/88 97,000	PRINCE 88-NP-127	
DETERMINATION AND STOCHASTIC WAVE FIELDS IN THE NEAR-FIELD FROM EXPLOSIVE SOURCES/6 MRS CRAY TIME FOR SHU/APOSR 88-0016 AIR FORCE WEAPONS LAB	RIENKE ROBERT	N 04 31/05/88 96,000	A PRINCE 88-NP-140	96,000 01/06/88 96,000
DIAGNOSTICS OF MAGNETIC SUBSTORMS USING SATELLITE OBSERVATIONS OF MAGNETIC PULSATIONS SOUTHWEST RESEARCH INSTITUTE	LIN CHIN	N 36 27/01/88 9433,250	A RADOSKI 88-NP-041	9140,340 01/10/88 9433,250
GEOMAGNETIC PULSATIONS OF THE EARTH'S MAGNETOSPHERE ELECTRO MAGNETIC APPLICATIONS INC	NG POH	N 06 05/02/88 950,064	RADOSKI 88-NP-050	
MAGNETIC PULSATIONS AS DIAGNOSTIC OF EARTH'S MAGNETOSPHERE SM SYSTEMS & RESEARCH CORPORATION	SOMAYAJULU Y.	N 06 05/02/88 948,935	RADOSKI 88-NP-053	

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MODELING OF THE GLOBAL IONOSPHERIC ENRICO LEVI, INC.	WMANG MICHAEL	N 06 05/02/88 948,783	RADOSKI 88-NP-054	9348,074 01/10/88 9488,568
PROBING COSMIC INFRARED SOURCES: A COMPUTER MODELING APPROACH RENSELAEER POLYTECHNIC INSTITUTE	LEUNG CHUM	N 36 09/02/88 9488,568	A RADOSKI 88-NP-066	9348,074 01/10/88 9488,568
GEOMAGNETIC PULSATIONS AS DIAGNOSTIC TOOLS OF THE EARTH'S MAGNETOSPHERE AEROTECH SYSTEMS CORPORATION	PRASAD J.	N 06 16/02/88 949,565	RADOSKI 88-NP-079	
GEOMAGNETIC PULSATIONS AS A DIAGNOSTIC OF THE EARTH'S MAGNETO- SPHERE TECHNIC RESEARCH LABORATORIES	RAUSCHER E.	N 06 16/02/88 949,555	RADOSKI 88-NP-080	
GEOMAGNETIC PULSATIONS AS A DIAGNOSTIC OF THE EARTH'S FIELD: CORRELATION OF LAND BASED SOLAR DIAGNOSTICS WITH APGL-MAGNET DATA TOPIC TECHNOLOGY	GRAY ROBERT	N 06 16/02/88 948,000	RADOSKI 88-NP-081	
EQUILIBRIUM MODEL OF THE EARTH'S MAGNETOSPHERE AIR FORCE GEOPHYSICS LABORATORY	HEINEMANN MICHAEL	N 12 07/06/88 960,000	A RADOSKI 88-NP-116	960,000 01/10/88 960,000
THE SOLAR ACTIVITY CYCLE NEW JERSEY INSTITUTE OF TECHNOLOGY	GOODE PHILIP	N 36 26/06/88 9273,085	A RADOSKI 88-NP-128	984,882 01/10/88 9273,085
A SEARCH FOR LOW-LUMINOSITY OBJECTS UNIV OF ARIZONA	GENRELS TOM	N 36 12/05/88 9233,429	A RADOSKI 88-NP-135	974,376 01/11/88 9233,429
MATHEMATICAL MODELING OF SOLAR MAGNETO-DYNAMICS COLUMBIA UNIVERSITY	SPIEGEL EDWARD	N 36 06/06/88 9625,051	A RADOSKI 88-NP-141	9200,467 01/10/88 9625,051
FEASIBILITY STUDY OF LAGEOS SATELLITE EXPERIMENT AIR FORCE GEOPHYSICS LABORATORY	MILLER W.	N 12 12/01/88 935,000	A SCHLOSSBER 88-NP-034	

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NONLINEAR OPTICAL PHASE CONJUGATION STUDIES CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV	N 24 14/01/80 \$220,000	A SCHLOSSER 88-NP-035	\$110,000 01/01/80 \$220,000
ORGANIZATION OF THE TOPICAL MEETING ON NONLINEAR OPTICAL PROPERTIES OF MATERIALS OPTICAL SOCIETY OF AMERICA	QUINN	N 12 29/01/80 \$15,000	A SCHLOSSER 88-NP-043	\$15,000 01/01/80 \$15,000
ORGANIZATION OF THE FOURTH TOPICAL MEETING ON SHORT WAVELENGTH COHERENT RADIATION: GENERATION AND APPLICATIONS OPTICAL SOCIETY OF AMERICA	QUINN	N 12 29/01/80 \$10,000	A SCHLOSSER 88-NP-044	\$10,000 01/06/80 \$10,000
PICOSECOND OSCILLOSCOPE AERODYNE RESEARCH INC	PUTNAM	N 06 29/01/80 \$49,969	SCHLOSSER 88-NP-046	
SYNTHETIC NONLINEAR MEDIA STANFORD UNIVERSITY	BYER	N 36 02/02/80 \$1,046,288	A SCHLOSSER 88-NP-047	\$107,317 01/08/80 \$1,030,288
ULTRA-SENSITIVE ELEMENT ANALYSIS BY COMBINING LASER ATOMIZATION WITH RESONANCE IONIZATION SPECTROSCOPY ATOM SCIENCES, INC.	THOMARD	N 06 08/02/80 \$56,655	SCHLOSSER 88-NP-050	
OPTICAL SCATTER INSTRUMENT FOR HIGH PERFORMANCE OPTICS DEACON RESEARCH	G. DEACON	N 06 08/02/80 \$54,985	SCHLOSSER 88-NP-059	
DESIGN AND APPLICATION OF AN OPTICAL SCATTERMETER FOR SURFACE DIAGNOSTICS SANDIA LABORATORIES	JACOBSON	N 06 08/02/80 \$57,522	SCHLOSSER 88-NP-060	
(TEM)000 CONTINUOUS-WAVE ULTRAVIOLET LASER SANDIA LABORATORIES	YU	N 06 08/02/80 \$56,564	SCHLOSSER 88-NP-061	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIAL START DATE TOT AMT
MICROWAVE CHARACTERIZATION OF NONLINEAR PROPERTIES OF MATERIALS LARGO SCIENTIFIC INC.	BLOCH	N 06 08/02/88 \$49,731	SCHLOSSER 88-NP-062	
CRYSTAL LASER BEAM MONITOR KUD & ASSOCIATES	MCCANN	N 06 16/02/88 \$50,000	SCHLOSSER 88-NP-075	
A MODULAR, NON-CONTACT ROUNDNESS MEASUREMENT SYSTEM: CONTROL SYSTEM & SENSOR CAPABILITIES LASER METRIC SYSTEMS, INC.	PAPURT	N 06 16/02/88 \$57,225	SCHLOSSER 88-NP-076	
ADVANCED PULSED NARROWBAND LASER LASER TECHNOLOGY ASSOCIATES	BROWN	N 06 16/02/88 \$49,976	SCHLOSSER 88-NP-077	
GEOMAGNETIC PULSATIONS AS A DIAGNOSTIC OF THE EARTH'S MAGNETOSPHERE SYNETICS CORP	LAQUADRA	N 06 16/02/88 \$50,166	SCHLOSSER 88-NP-078	
SINGLE CRYSTAL FIBERS OF MGO: LIMBO3 LASER GENICS CORPORATION	SCHLECHT	N 06 18/02/88 \$49,838	A SCHLOSSER 88-NP-088	\$49,838 01/08/88 \$49,838
RESEARCH INSTRUMENTATION (RIPSODL) FOR FREE SPACE OPTICAL DATA LIN AS ENERGY OPTICS, INC.	COX	N 06 18/02/88 \$52,107	SCHLOSSER 88-NP-089	
DEVELOPMENT OF A PORTABLE AUTOMATED DIRECTIONAL REFLECTOMETER SURFACE OPTICS CORPORATION	NEU	N 06 18/02/88 \$49,856	SCHLOSSER 88-NP-090	
UV/XUV FEL STORAGE RING AND LINAC DUKE UNIVERSITY	MADEY	N 36 18/02/88 \$7,219,584	A SCHLOSSER 88-NP-092	\$800,000 01/07/88 \$3,600,000
QUASI-CW EXCIMER LASER POTOMAC PHOTONICS INC.	CHRISTENSEN	N 06 24/02/88 \$48,836	A SCHLOSSER 88-NP-093	\$244,981 01/09/88 \$498,893

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RESEARCH ON ADVANCED SOURCE DEVELOPMENT AND APPLICATIONS DUKE UNIVERSITY	MADEV JOHN	N 12 24/02/88 \$600,000	A SCHLOSSER 88-NP-095	\$390,000 01/07/88 \$600,000
VACUUM-ULTRAVIOLET FREE-ELECTRON LASER UNIV OF CALIFORNIA	BRAU C.	N 24 07/03/88 \$1,499,948	SCHLOSSER 88-NP-099	
SUBPICSECONDELECTRONIC SAMPLING AND DISTRIBUTED NONLINEAR ELECTRONICS STANFORD UNIVERSITY	BLOOM DAVID	N 36 11/03/88 \$564,237	A SCHLOSSER 88-NP-101	\$60,000 01/09/88 \$564,237
SIXTH ROCHESTER CONFERENCE ON COMERENCE AND QUANTUM OPTICS UNIV OF ROCHESTER	EBERLY JOSEPH	N 36 11/03/88 \$44,330	A SCHLOSSER 88-NP-102	\$38,000 01/09/88 \$38,000
STIMULATED SCATTERING AND PHASE CONJUGATION IN PHOTOREFRACTIVE MAT ERIALS UNIV OF SOUTHERN CALIFORNIA	FEINBERG JACK	N 36 14/03/88 \$644,045	A SCHLOSSER 88-NP-104	\$86,000 01/07/88 \$644,045
CM ULTRAVIOLET LASER EXCITED WITH AN ELECTROM BEAM COLORADO STATE UNIVERSITY	ROCCA JORGE	R 12 23/03/88 \$58,920	A SCHLOSSER 88-NP-110	\$35,529 01/07/88 \$35,529
DEVELOPMENT OF PHOTO-DEPOSITED DIAMOND FILMS DEACON RESEARCH	O'KEEF ANTHONY	N 06 30/03/88 \$49,970	A SCHLOSSER 88-NP-112	\$54,833 01/08/88 \$49,968
VUV AND UV SOURCES AND SPECTROSCOPIC APPLICATIONS UNIV OF ILLINOIS	EDEN J.	R 36 08/04/88 \$749,964	A SCHLOSSER 88-NP-118	\$190,000 01/10/88 \$570,000
RESEARCH STUDIES ON EXTREME ULTRAVIOLET AND SOFT X-RAY LASERS STANFORD UNIVERSITY	HARRIS S	N 36 19/04/88 \$2,109,619	A SCHLOSSER 88-NP-123	\$23,419 01/09/88 \$2,109,621

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ACQUISITION OF A MOLECULAR-BEAM-EPITAXY MACHINE FOR SEMICONDUCTOR PHYSICS AND OPTICAL COMPUTING RESEARCH UNIV OF ARIZONA	GIBBS	N 12 09/05/88 \$325,000	SCMLOSSBER 88-NP-131	
STIMULATED SCATTERING AND PHASE CONJUGATION IN PHOTOREFRACTIVE MATERIALS UNIV OF SOUTHERN CALIFORNIA	FEINBERG	R 36 11/05/88 \$644,045	SCMLOSSBER 88-NP-132	
CRYSTAL GROWTH AND NOVEL DEVICE APPLICATIONS OF KND03 HUGHES AIRCRAFT CO	KLEIN	N 36 11/05/88 \$923,413	SCMLOSSBER 88-NP-134	
OPTOELECTRONICS RESEARCH CENTER UNIV OF NEW MEXICO	BRUECK	R 36 25/05/88 \$3,000,000	A SCMLOSSBER 88-NP-139	\$15,028 01/09/88 \$3,000,000
CHAOS AND TURBULENCE IN LASERS - EXPERIMENT AND THEORY ORLXEL UNIVERSITY	GILMORE	N 36 10/06/88 \$327,585	SCMLOSSBER 88-NP-142	
RESEARCH STUDIES ON EXTREME ULTRAVIOLET AND SOFT X-RAY LASERS STANFORD UNIVERSITY	HARRIS	R 36 10/06/88 \$2,109,619	SCMLOSSBER 88-NP-143	
LASER HEATING OF SMALL CYLINDRICAL CAVITIES AND SOFT X-RAY LASERS LEHIGH UNIVERSITY	PARULA	N 36 21/06/88 \$280,380	SCMLOSSBER 88-NP-144	
INNOVATIVE SCIENCES TECHNICAL EXPERIMENTATION CENTER EASTERN SPACE & MISSILE CENTER	KENNEDY	N 09 22/01/88 \$500,000	A SMITH 88-NP-036	\$500,000 01/01/88 \$500,000
APPLICATION OF NONLINEAR OPTICAL TECHNIQUES TO COUPLING AND PHASING OF MULTIPLE LASER DEVICES AIR FORCE INSTITUTE OF TECHNOLOGY	ROM	N 08 22/01/88 \$50,000	A SMITH 88-NP-037	\$50,000 01/02/88 \$50,000
OPTICALLY CONTROLLED SOLID STATE REPETITIVE OPENING SWITCHES: HIGH TC SUPERCONDUCTORS AND DIAMOND AND GRAPHITE UNIV OF MARYLAND	LEE	N 40 29/01/88 \$489,600	A SMITH 88-NP-045	\$54,121 01/08/88 \$489,600

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SDIO INNOVATIVE SCIENCE AND TECHNOLOGY: PARTICLE BEAMS LOS ALAMOS TECHNICAL ASSOCIATES INC	VOGEL HERBERT	N 12 04/02/88 \$50,000	SMITH 88-NP-048	
GRAND CHALLENGES TO COMPUTATIONAL SCIENCE LAWRENCE LIVERMORE LAB (CALIF UNIV)	NOMAK PAUL	N 08 08/02/88 \$10,000	A SMITH 88-NP-056	\$5,500 01/03/88 \$10,000
MAGNETIC DEFLECTION OSCILLATOR, A HIGH POWER DEVICE TETRA CORPORATION	MOENY W.	N 06 08/02/88 \$59,424	SMITH 88-NP-057	
DISSOCIATIVE RECOMBINATION: THEORY, EXPERIMENT AND APPLICATION UNIV OF WESTERN ONTARIO	MITCHELL BRIAN	N 05 08/02/88 \$10,500	A SMITH 88-NP-064	\$10,500 01/05/88 \$10,500
FLUCTUATIONS IN H SOURCES LOS ALAMOS SCIENTIFIC LAB (DOE)	GERWIN RICHARD	N 24 18/03/88 \$150,000	SMITH 88-NP-109	
THEORETICAL STUDIES OF THE ELECTRONICS AND RESONANCE STRUCTURE OF ATOMIC AND MOLECULAR NEGATIVE IONS UNITED TECHNOLOGIES RESEARCH CENTER	MICHEL M.	N 36 28/03/88 \$349,982	SMITH 88-NP-111	
ELECTRON PRODUCTION, ELECTRON ATTACHMENT, AND CHARGE RECOMBINATION IN HIGH PRESSURE GAS DISCHARGES SAN DIEGO STATE UNIVERSITY	LEE LONG	R 12 13/04/88 \$123,240	SMITH 88-NP-121	
PROPAGATION OF A NEUTRALIZED ION BEAM (PLASMOID) IN A TRANSVERSE MAGNETIC FIELD UNIV OF CALIFORNIA	ROSTOKER NORMAN	N 28 14/04/88 \$504,335	A SMITH 88-NP-122	\$65,000 01/08/88 \$504,335
ELECTRON PRODUCTION, ELECTRON ATTACHMENT, AND CHARGE RECOMBINATION IN HIGH PRESSURE GAS DISCHARGES SAN DIEGO STATE UNIVERSITY	LEE LONG	R 12 21/04/88 \$114,450	SMITH 88-NP-125	

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INVESTIGATION OF HIGH EFFICIENCY MONOLITHIC MULTIBANDGAP SOLAR CELLS UNIV OF WASHINGTON	OLSEN LARRY	R 24 18/05/88 8272,259	SMITH 88-NP-137	
INNOVATIVE SCIENCES TECHNICAL EXPERIMENTATION CENTER EASTERN SPACE & MISSILE CENTER	KENNEDY MIKE	N 16 19/05/88 92,600,000	A SMITH 88-NP-138	92,600,000 01/06/88 92,600,000
SURFACE PRODUCTION OF IONS STEVENS INSTITUTE OF TECHNOLOGY	SEIOL MILDS	R 10 22/06/88 8212,269	A SMITH 88-NP-145	8212,269 01/10/88 9212,269
PULSE POWER FORMULARY NORTH STAR RESEARCH CORPORATION	ADLER RICHARD	N 07 28/06/88 833,175	A SMITH 88-NP-148	833,175 01/10/88 833,175